



JORDAN VALLEY WATER CONSERVANCY DISTRICT

JORDAN VALLEY WATER CONSERVANCY DISTRICT
WEST JORDAN, UTAH

JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES

JVWCD PROJECT #4289

ADDENDUM NO. 2
TO THE
CONTRACT DOCUMENTS

APRIL 2025



Bidders on the above-named project are hereby notified that the Bidding Documents are modified as indicated below. Bidders are required to acknowledge receipt of this Addendum in the space provided on the Document C-1 Bid Form.

This addendum consists of the following items:

ADDENDUM ITEM	NO. OF PAGES
This document (including cover page)	5
Drawing Markups	16
Answers to Bidder Questions	2

This Addendum shall become part of the Contract and provisions of the Contract apply.

NOTICE: The bid date has been changed by this addendum to 2:00 pm on June 12, 2025.

All RFI's should be submitted before 2:00 pm on May 29, 2025.

SPECIFICATIONS

The following sections are modified as indicated below.

1. NOTICE INVITING BIDS:
 - a. **REPLACE** the date listed under 'RECEIPT OF BIDS' with the following:
 1. ~~May 15~~ **June 12**
 - b. **ADD** the following paragraph to the section titled 'PROJECT ADMINISTRATION':
 1. The last day to submit formal questions shall be two weeks (14 calendar days) before the listed bid opening date and time.
2. SUPPLEMENTAL GENERAL CONDITIONS:
 - a. **REMOVE** paragraph 14.03.H from the Supplemental General Conditions and **REPLACE** with the following:
 1. **H. With the Owner's prior approval, completed/fabricated components or raw materials for components of the project that have been received and stored by the Contractor will be considered for payment. For raw materials, only materials that will become a permanent part of the WORK and that have a completed/fabricated/delivered individual value greater than \$50,000 will be considered. Components and materials stored on or off-site will be subject to the supporting documentation outlined in the general conditions for materials stored at the site or at another location agreed to in writing by the OWNER. Should the Owner request additional verification, the contractor will provide additional supporting documentation as requested and/or reimburse the Owner for reasonable travel expenses to verify the components and materials stored and invoiced. All on and off-site stored components and materials shall be stored in**

accordance with the manufacturer's guidelines and the requirements of this Contract.

3. SECTION 02050 - SOILS AND AGGREGATES FOR EARTHWORK:

a. **REMOVE** the following language from section 2.02 B.5

1. "Corrosion resistance requirements:

a. Resistivity minimum (wet aggregates): 5,000 ohm-cm."

4. SECTION 11242 – LIQUID CHEMICAL DIAPHRAGM-TYPE METERING PUMPS:

a. **ADD** the following language below section 2.01.B:

1. **C. Pump supplier shall maintain the ability to provide local, on-site, support services.**

5. SECTION 13270 – PAC STORAGE AND HANDLING SYSTEM:

a. **ADD** the following paragraph below section 2.03.B.2.a:

1. The listed suppliers provide different levels of pre-assembly and pre-wiring. The Contractor shall be responsible for evaluating all differences in on-site assembly and wiring requirements based on the supplier and shall include Contractor on-site installation and wiring in their bid.

6. SECTION 16050 – COMMON WORK RESULTS FOR ELECTRICAL:

a. **ADD** the following rows to section 2.04 C.1.a Table 1:

Backwash Tank and Vault (Area 41)	W	4 SST	GRC	GALV STL
Culinary Pump Station (Area 55)	D	4 SST	GRC	GALV STL
Fluoride Building (Area 66)	D, X	4X Non-metallic	PVC	PVC or Fiberglass

b. **REPLACE** section 3.03 A with the following:

A. Demolition:

1. As specified in Technical Sections or as indicated on the Drawings.

2. Disconnect utilities:

a. Disconnect electrical equipment.

3. Salvage electrical equipment as specified in Section 01738 - Selective Alterations and Demolition.

a. For each piece of equipment to be removed, remove ancillary components (e.g., instruments, solenoid valves, disconnect switches, etc.).

b. Remove wire back to the source for conduits to be removed or abandoned in place.

c. Unless otherwise indicated on the Drawings:

2) Remove exposed conduit to the point of encasement or burial.

2) Cut conduit flush and plug or cap encased or buried conduit.

- d. Where conduits are to remain in place and removal is not indicated on the Drawings:
 - 2) Cap conduit open ends.
 - 2) Re-label empty conduits as spare.
 - e. Demolish duct banks and direct buried conduit as indicated on the Drawings.
 - 4. Provide new nameplates for modified electrical distribution equipment, motor control centers etc., to identify equipment and circuits that are no longer used as spares.
 - 5. Provide new typewritten schedules for modified panelboards.
- 7. SECTION 16130 – CONDUITS:
 - a. **REMOVE** paragraph 3.03 A.17.a and 3.03 A.17.a.1).
 - b. **REMOVE** paragraph 3.03 A.18.d and 3.03 A.18.d.1).
- 8. SECTION 16133 – DUCT BANKS:
 - a. **REMOVE** paragraph 2.02.C.
 - b. **REMOVE** paragraph 2.04.B.
 - c. **REMOVE** “Encased in concrete” from the following paragraph in section 3.03.A.1:
 - 1. “Encased in concrete at least 24 inches below finished grade, unless otherwise indicated on the Drawings.”
 - d. **REMOVE** “pouring of concrete or” from the following paragraph in section 3.03.A.2.b:
 - 1. “Protect underground duct banks against damage during pouring of concrete or backfilling.”
 - e. **REMOVE** “and fabricate the concrete envelopes” from the following paragraph in section 3.03.A.6:
 - 1. “Where new duct banks join to existing manholes, handholes, or pullboxes, make the proper fittings and fabricate the concrete envelopes to ensure smooth durable transitions, as indicated on the Drawings.”
 - f. **REPLACE** “concrete” with “backfill” in paragraph 3.03 C.2.a.1)a):
 - 1. “Clearance is required to allow the proper amount of concrete to infiltrate vertically among the duct to ensure proper protection.”
 - g. **REMOVE** paragraphs 3.03 B.3 and 3.03 B.3.a.
 - h. **REMOVE** “during concrete pour” from the following paragraph in section 3.03.C.2:
 - 1. “Install spacers to maintain uniform spacing of duct assembly a minimum of 4 inches above the bottom of the trench during concrete pour. Install spacers on 8-foot maximum intervals.”
 - i. **REMOVE** paragraphs 3.03 E and 3.03 E.1 through 3.03 E.5.
- 9. SECTION 16990B – CONDUIT SCHEDULE – AREA 30:
 - a. **REPLACE** conduits C-30-912, C-30-914, C-30-951, C-30-952, N-30-904, and S-30-907 with the following:

C-30-912	30E02	0.75"	6	#14	XHHW-2	1	#14	XHHW-2	FR:	FV-4411	
									TO:	RTU-ELEC1	
									6 #14	>> FV-4411 CONTROL	

C-30-914	30E02	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FIT-4411 TO: RTU-ELEC1 2 #14 >> FIT-4411 24VDC CONTROL POWER
C-30-951	30E05	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: LSHH-3931 TO: RTU-ELEC1 2 #14 >> LSHH-3931 STATUS
C-30-952	30E05	0.75"	3	#14	XHHW-2	1	#14	XHHW-2	FR: FSH-3942 TO: RTU-ELEC1 3 #14 >> FSH-3942 STATUS
N-30-904	30E02	0.75"	1		RS-485	1	#14	XHHW-2	FR: FIT-4411 TO: RTU-ELEC1 1 RS-485 >> FIT-4411 NETWORK
S-30-907	30E02	0.75"	2	2/CS-#16		1	#14	XHHW-2	FR: FV-4411 TO: RTU-ELEC1 2 2/CS-#16 >> FV-4411 SIGNAL

10. SECTION 16990E – CONDUIT SCHEDULE – AREA 63:

- a. **REMOVE** conduit N-63-102 in its entirety.

11. SECTION 17622 – WEIGHT MEASUREMENT: PLATFORM SCALE AND LOAD CELLS:

- a. **REMOVE** the following paragraph from 2.04.E.2.c.1:
1. “Capable of calculating total amount used and rate of feed.”

DRAWINGS

Note to Bidders on addenda drawings: The addenda drawings make use of color coding to show revisions made by addendum. The following color codes are used, for clarity:

Red is used to highlight additions, corrections, or changes that are incorporated into the drawing.

Green is used to indicate items that shall be removed or deleted from the drawing.

Blue is used for comments, notes, clarifications, or instructions that may not be physically added to the drawing itself.

The following drawings are modified as indicated below.

12. **REPLACE** the following drawings in their entirety with the drawings attached:

- | | |
|-----------|----------|
| a. 00G05 | i. 01E02 |
| b. 01DE01 | j. 01E03 |
| c. 01DE02 | k. 01E04 |
| d. 01DE03 | l. 01E06 |
| e. 00GA01 | m. 30E05 |
| f. 41S05 | n. 63E05 |
| g. 69M13 | o. 30N24 |
| h. 00GE06 | p. 30N28 |

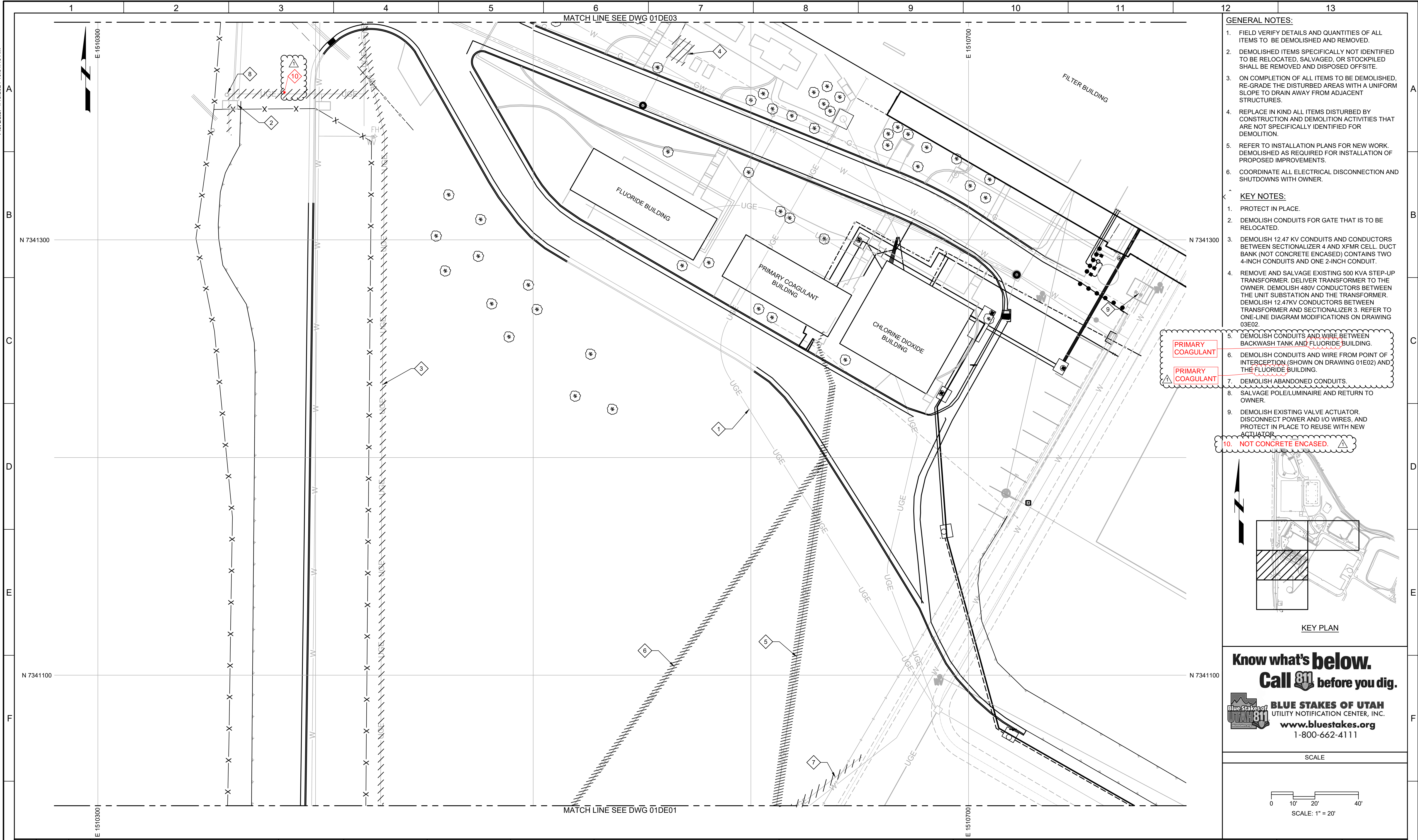
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A	@ △ #	AT (MEASUREMENT) DEFLECTION ANGLE, CENTRAL ANGLE NUMBER (REBAR Ø)	CPLG CPT CPVC CS CSP CT	COUPLING CARPET CHLORINATED POLYVINYL CHLORIDE CARBON STEEL, CURRENT SENSOR, CAUSTIC SODA CHEMICAL SUMP PUMP, CORRUGATED STEEL PIPE CURRENT TRANSFORMER, CERAMIC TILE, COOLING TOWER CONTROL JOINT CONTROL CENTER, CENTERED COUNTERSUNK CUBIC, CONDENSING UNIT COPPER PIPE CHECK VALVE COLD WATER COMBINATION WASTE AND VENT CUBIC YARD	FLE FLEX FLG FLR FM FND FO FOB FOT FPM FPP FRP FRPP FRS FS FSTN FT or ' FTG FTW FUP FV FDR FX FXC FXE	FILTER EFFLUENT FLEXIBLE FLANGE, OR FLANGED FILTER FORCE MAIN FOUNDATION FUEL OIL FLAT ON BOTTOM FLAT ON TOP FEET PER MINUTE FLEXIBLE PLASTIC PIPE FIBERGLASS REINFORCED PLASTIC FIBERGLASS REINFORCED PLASTIC PIPE FROTH SPRAY FAR SIDE FASTEN(ED) FEET FOOTING FILTER TO WASTE FUEL DISPENSER FLAP VALVE FLUSHING WATER, FINISHED WATER FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER - ELECTRICAL	LR LS LT LWL	LONG RADIUS LAB SINK LEFT LOW WATER LEVEL	PVMT PVT PLW	PAVEMENT POINT OF VERTICAL TANGENCY PLANT WATER	SW SWR SYM SYN	SANITARY WASTE SEAL WATER SYMMETRICAL SYNTHETIC	
B	AB ABC ABS AC ACB ACI ACP ACU AD ADDL ADJ ADMIN ADR AED AER AFC AFF AFM AFS AHU AIC AIL ALT AL ANCH ANV APF APPROX ARCH ARV AS ASSY ASTM AV AVG AVV AW	ANCHOR BOLT AGGREGATE BASE COURSE ACRYLONITRILE BUTADIENE STYRENE ASPHALTIC CONCRETE, AIR CONDITIONING AIR CIRCUIT BREAKER AMERICAN CONCRETE INSTITUTE ASBESTOS CEMENT PIPE AIR CONDITIONING UNIT AREA DRAIN ADDITIONAL ADJACENT, ADJUST, ADJUSTABLE ADMINISTRATION ACCESS DOOR AREA EQUIPMENT DRAIN AERAT(ION)(OR) AFTERCOOLER ABOVE FINISHED FLOOR AIR FLOW MONITOR AIR FLOW SWITCH AIR HANDLING UNIT AIR COMPRESSOR AIR INTAKE LOUVER ALTERNATE ALUMINUM ANCHOR ANGLE VALVE ALTERNATE PLANT FEED APPROXIMATE, APPROXIMATELY ARCHITECTURAL AIR RELEASE VALVE AIR SCOUR ASSEMBLY AMERICAN SOCIETY FOR TESTING AND MATERIALS ACID VENT DAMP AVERAGE AIR AND VACUUM VALVE ACID WASTE	CTJ CTK CTR CTSK CU CUP CV CW CWW CY	D 									



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GENERAL NOTES:

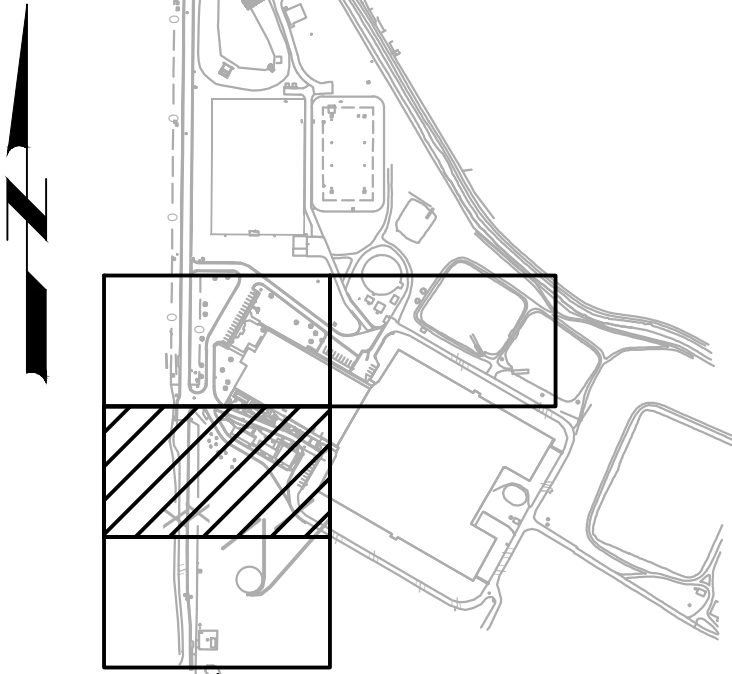
1. FIELD VERIFY DETAILS AND QUANTITIES OF ALL ITEMS TO BE DEMOLISHED AND REMOVED.
2. DEMOLISHED ITEMS SPECIFICALLY NOT IDENTIFIED TO BE RELOCATED, SALVAGED, OR STOCKPILED SHALL BE REMOVED AND DISPOSED OFFSITE.
3. ON COMPLETION OF ALL ITEMS TO BE DEMOLISHED, RE-GRADE THE DISTURBED AREAS WITH A UNIFORM SLOPE TO DRAIN AWAY FROM ADJACENT STRUCTURES.
4. REPLACE IN KIND ALL ITEMS DISTURBED BY CONSTRUCTION AND DEMOLITION ACTIVITIES THAT ARE NOT SPECIFICALLY IDENTIFIED FOR DEMOLITION.
5. REFER TO INSTALLATION PLANS FOR NEW WORK. DEMOLISHED AS REQUIRED FOR INSTALLATION OF PROPOSED IMPROVEMENTS.
6. COORDINATE ALL ELECTRICAL DISCONNECTION AND SHUTDOWNS WITH OWNER.

KEY NOTES:

1. PROTECT IN PLACE.
2. DEMOLISH CONDUITS FOR GATE THAT IS TO BE RELOCATED.
3. DEMOLISH 12.47 KV CONDUITS AND CONDUCTORS BETWEEN SECTIONALIZER 4 AND XFMR CELL. DUCT BANK (NOT CONCRETE ENCASED) CONTAINS TWO 4-INCH CONDUITS AND ONE 2-INCH CONDUIT.
4. REMOVE AND SALVAGE EXISTING 500 KVA STEP-UP TRANSFORMER. DELIVER TRANSFORMER TO THE OWNER. DEMOLISH 480V CONDUCTORS BETWEEN THE UNIT SUBSTATION AND THE TRANSFORMER. DEMOLISH 12.47KV CONDUCTORS BETWEEN TRANSFORMER AND SECTIONALIZER 3. REFER TO ONE-LINE DIAGRAM MODIFICATIONS ON DRAWING 03E02.
5. DEMOLISH CONDUITS AND WIRE BETWEEN BACKWASH TANK AND FLUORIDE BUILDING.
6. DEMOLISH CONDUITS AND WIRE FROM POINT OF INTERCEPTION (SHOWN ON DRAWING 01E02) AND THE FLUORIDE BUILDING.
7. DEMOLISH ABANDONED CONDUITS.
8. SALVAGE POLE/LUMINAIRE AND RETURN TO OWNER.
9. DEMOLISH EXISTING VALVE ACTUATOR. DISCONNECT POWER AND I/O WIRES, AND PROTECT IN PLACE TO REUSE WITH NEW ACTUATOR.
10. NOT CONCRETE ENCASED.

PRIMARY
COAGULANT

PRIMARY
COAGULANT

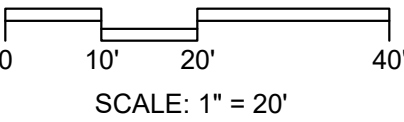


KEY PLAN

Know what's below.
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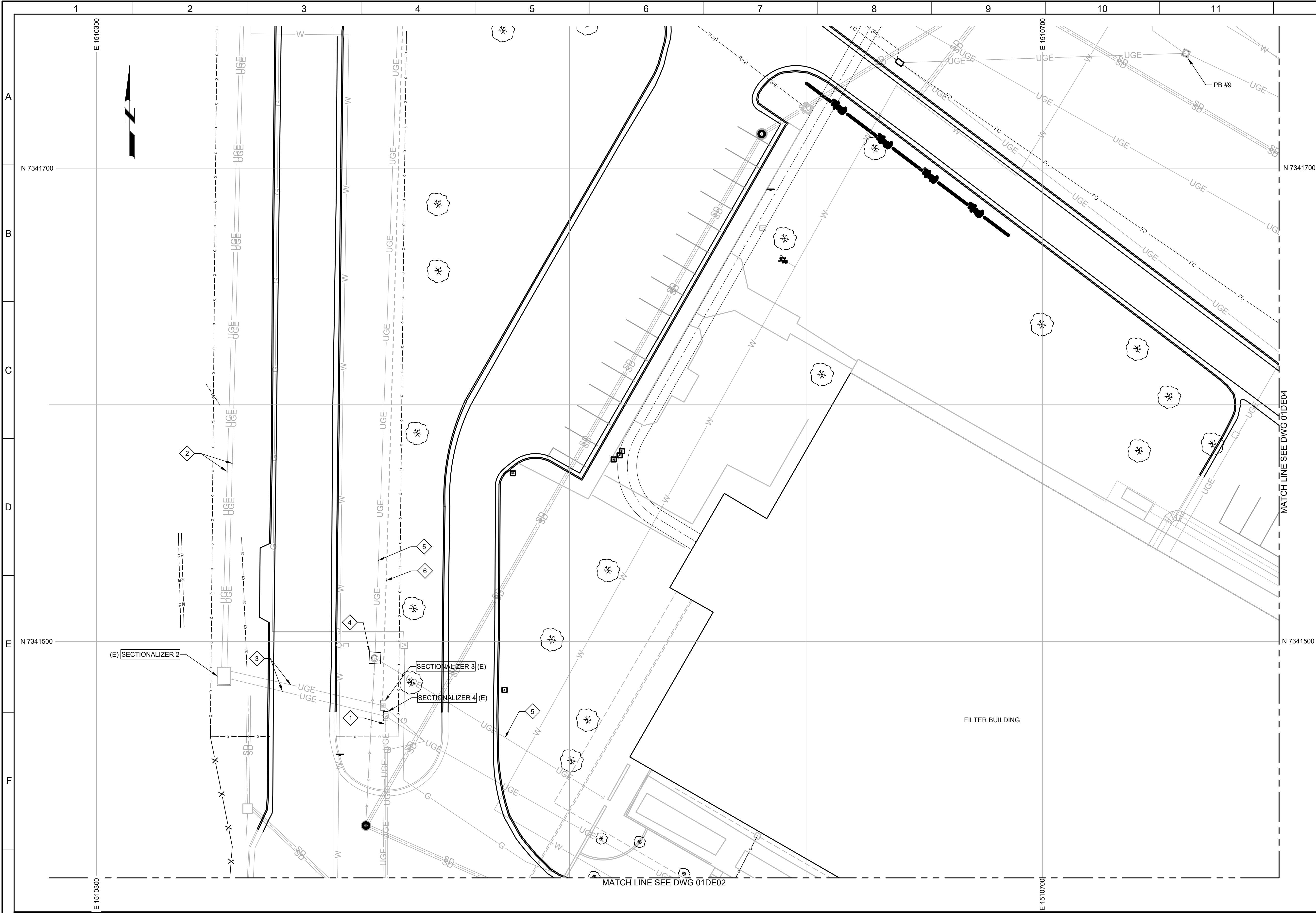
SCALE



G				BID SET		DESIGNED SKB				JORDAN VALLEY WATER TREATMENT PLANT		VERIFY SCALES	JOB NO. 202001.10	G
					DRAWN MNH	FILTER AND CHEMICAL FEED UPGRADES				BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 01DE02			
					CHECKED GCE	DEMOLITION				0 1"	SHEET NO.			
		04/30/2025	SKB	ADDENDUM NO. 2	DATE FEBRUARY 2025	ELECTRICAL PLAN 2				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	OF			
REV	DATE	SKB BY	DESCRIPTION											

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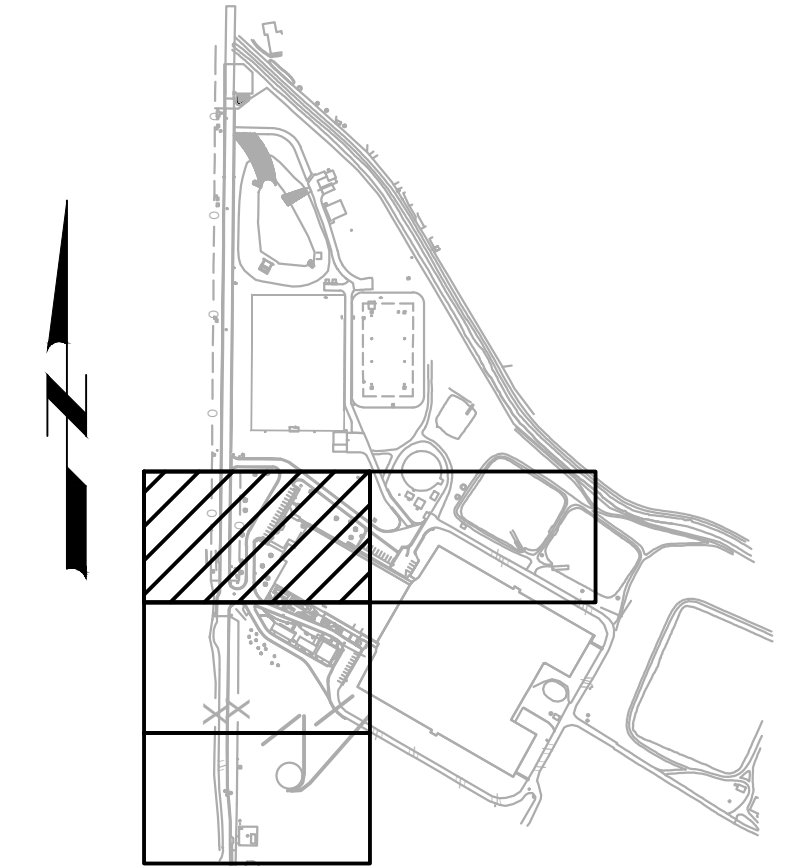


GENERAL NOTES:

1. FIELD VERIFY DETAILS AND QUANTITIES OF ALL ITEMS TO BE DEMOLISHED AND REMOVED.
2. DEMOLISHED ITEMS SPECIFICALLY NOT IDENTIFIED TO BE RELOCATED, SALVAGED, OR STOCKPILED SHALL BE REMOVED AND DISPOSED OFFSITE.
3. ON COMPLETION OF ALL ITEMS TO BE DEMOLISHED, RE-GRADE THE DISTURBED AREAS WITH A UNIFORM SLOPE TO DRAIN AWAY FROM ADJACENT STRUCTURES.
4. REPLACE IN KIND ALL ITEMS DISTURBED BY CONSTRUCTION AND DEMOLITION ACTIVITIES THAT ARE NOT SPECIFICALLY IDENTIFIED FOR DEMOLITION.
5. REFER TO INSTALLATION PLANS FOR NEW WORK. DEMOLISHED AS REQUIRED FOR INSTALLATION OF PROPOSED IMPROVEMENTS.
6. COORDINATE ALL ELECTRICAL DISCONNECTION AND SHUTDOWNS WITH OWNER.

KEY NOTES:

1. DEMOLISH 12.47 KV CONDUITS AND CONDUCTORS BETWEEN SECTIONALIZER 4 AND XFMR. CELL. DUCT BANK (NOT CONCRETE ENCASED) CONTAINS TWO 4-INCH CONDUITS AND ONE 2-INCH CONDUIT.
2. THREE EXISTING 5-INCH CONDUITS, 1 EMPTY SPARE, 2 IN USE. **PROTECT IN PLACE.**
3. TWO 4-INCH CONDUITS. **PROTECT IN PLACE.**
4. EMPTY PULLBOX. **PROTECT IN PLACE.**
5. EMPTY SPARE CONDUIT. **PROTECT IN PLACE.**
6. EXISTING UGE TO XFMR-APF FROM SECTIONALIZER 4, CABLED BELOW SECTIONALIZER 3. **PROTECT IN PLACE.**



KEY PLAN

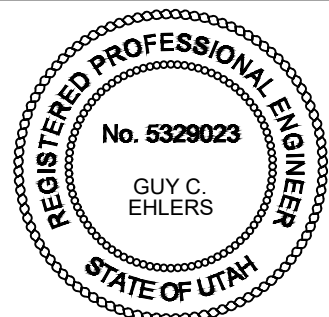
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0 10' 20' 40'
SCALE: 1" = 20'

BID SET			
REV	DATE	SKB BY	DESCRIPTION
1	04/30/2025	SKB	ADDENDUM NO. 2

DESIGNED	SKB
DRAWN	MNH
CHECKED	GCE
DATE	FEBRUARY 2025

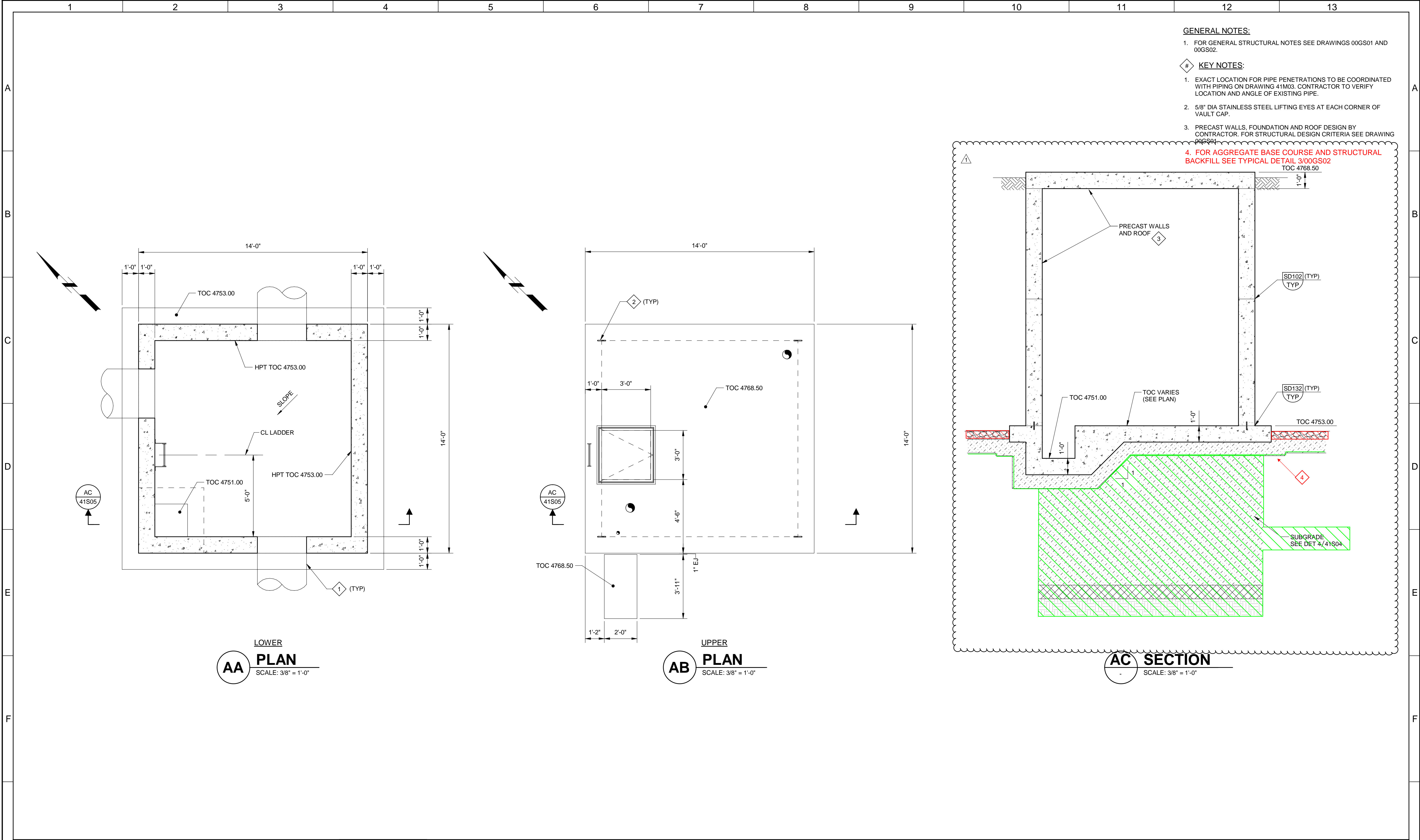


JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
DEMOLITION
ELECTRICAL PLAN 3

VERIFY SCALES	JOB NO. 202001.10
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. OF

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	63-D103-01	EXT	3'-0"	7'-0"	1 3/4"	F	HM	PAINTED	3'-4"	7'-4"	5 3/4"	R	HM	PAINTED	H	H	E	R	NR	R	R	HW-1	65-101	CAUSTIC SODA METERING AREA			CONC	SEALER	NA	CMU	COATING	CMU	COATING	CMU	COATING	CMU	COATING	CMU	COATING	MTL DECK	26'-0"	COATED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	63-D103-02	INT	3'-0"	7'-0"	1 3/4"	F	HM	PAINTED	3'-4"	7'-4"	5 3/4"	R	HM	PAINTED	C	C	B	R	NR	NR	R	HW-3	65-102	CAUSTIC SODA BULK AREA			CONC	SEALER	NA	CMU	COATING	CMU	COATING	CMU	COATING	CMU	COATING	CMU	COATING	MTL DECK	26'-0"	COATED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	63-D104-01	EXT	3'-0"	7'-0"	1 3/4"	F	HM	PAINTED	3'-4"	7'-4"	5 3/4"	R	HM	PAINTED	H	H	E	R	NR	NR	R	HW-1	65-103	ELECTRICAL ROOM			CONC	SEALER	NA	CMU	COATING	CMU	COATING	CMU	COATING	CMU	COATING	CMU	COATING	MTL DECK	26'-0"	COATED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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R-VALUE:	THERMAL RESISTANCE, IS THE INVERSE OF THE TIME RATE OF HEAT FLOW THROUGH A BODY FROM ONE OF ITS BOUNDING SURFACES TO THE OTHER SURFACE FOR A UNIT TEMPERATURE DIFFERENCE BETWEEN THE TWO SURFACES, UNDER STEADY STATE CONDITIONS, PER UNIT AREA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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U-FACTOR:	THERMAL TRANSMITTANCE, IS THE COEFFICIENT OF HEAT TRANSMISSION (AIR TO AIR) THROUGH A BUILDING COMPONENT OR ASSEMBLY, EQUAL TO THE TIME RATE OF HEAT FLOW PER UNIT AREA AND UNIT TEMPERATURE DIFFERENCE BETWEEN THE WARM SIDE AND COLD SIDE AIR FILMS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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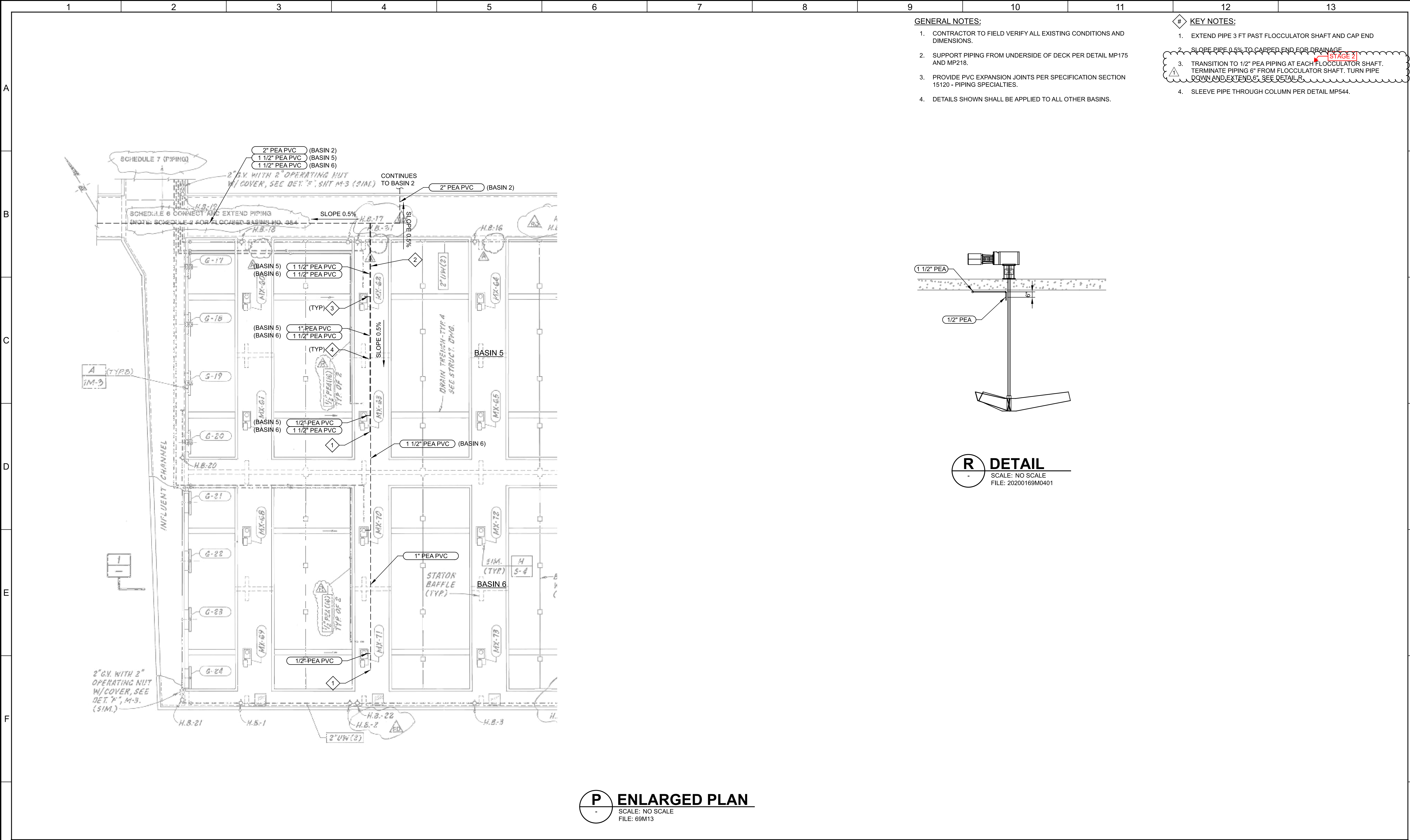
BID SET				DESIGNED SS								JORDAN VALLEY WATER TREATMENT PLANT		VERIFY SCALES	JOB NO. 202001.10
				DRAWN TJD								FILTER AND CHEMICAL FEED UPGRADES		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED JAD										0 1"	41S05
				DATE FEBRUARY 2025								STRUCTURAL BACKWASH TANK VAULT PLANS AND SECTION		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. OF
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User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: tscheele



P ENLARGED PLAN
SCALE: NO SCALE
FILE: 69M13

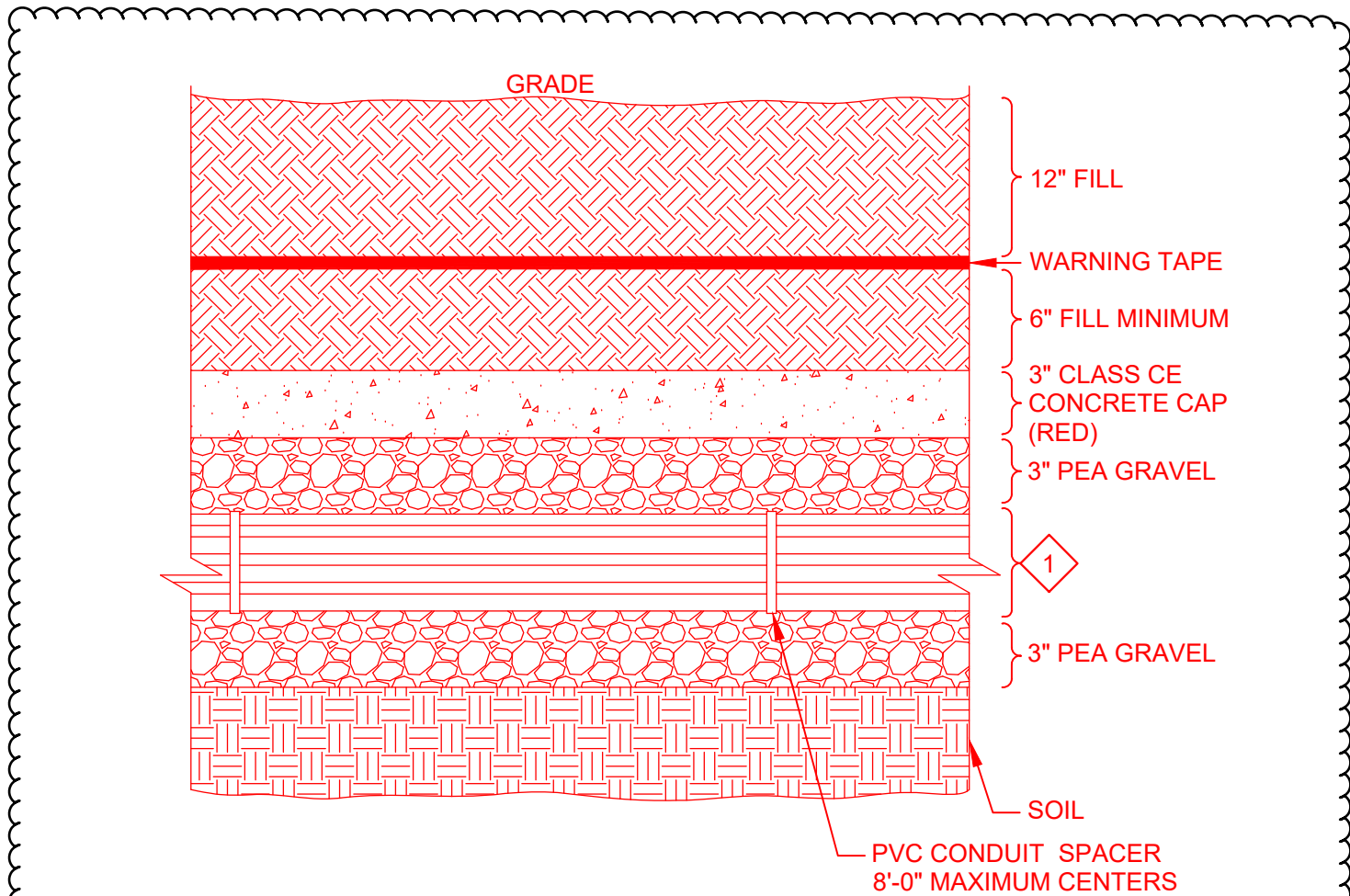


JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
MECHANICAL
FLOCCULATION AND SEDIMENTATION
BASIN PARTIAL PLAN

VERIFY SCALES	JOB NO. 202001.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 69M13
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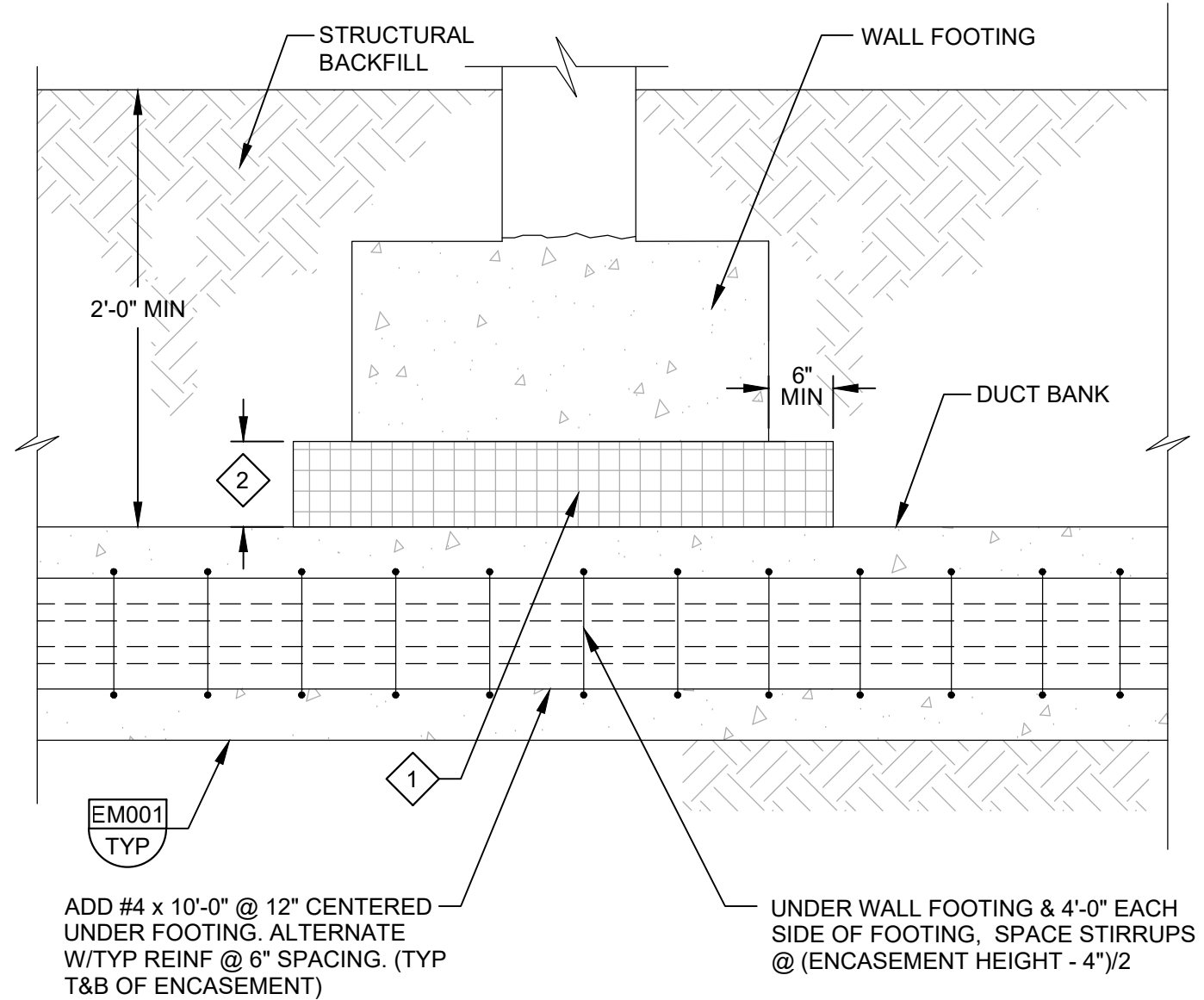
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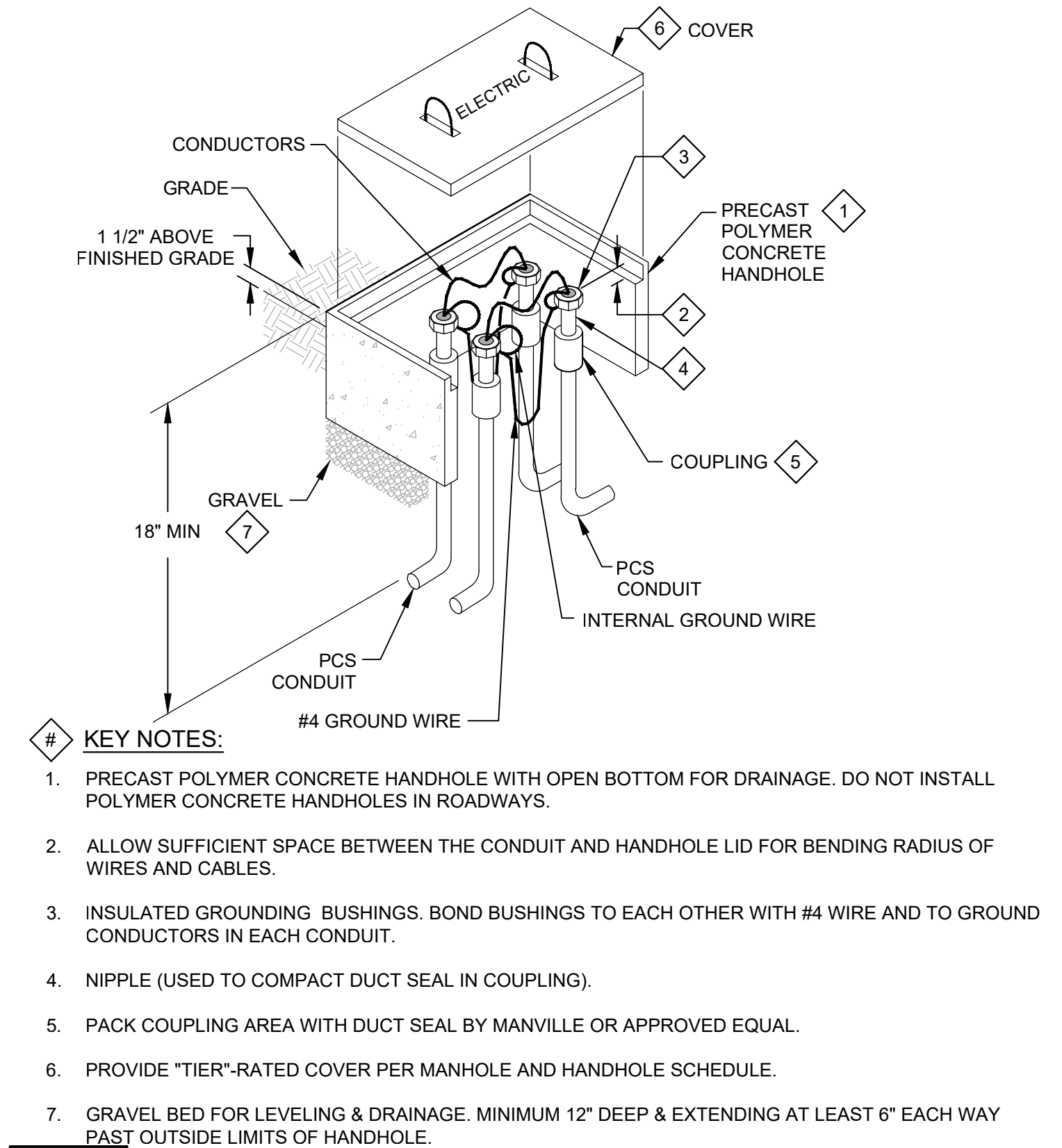
- GENERAL NOTES:**
- ALL DIMENSIONS ARE MINIMUM UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 - REFER TO THE SPECIFICATIONS FOR TRENCH BACKFILL REQUIREMENTS.
 - PROVIDE CONCRETE CAP ON ALL DUCT BANKS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 - REFER TO THE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
- KEY NOTES:**
- REFER TO DUCT BANK AND CONDUIT SCHEDULES FOR CONDUIT REQUIREMENTS.

EM015 PEA GRAVEL EMBEDDED DUCT BANK
TYP
01/23/25



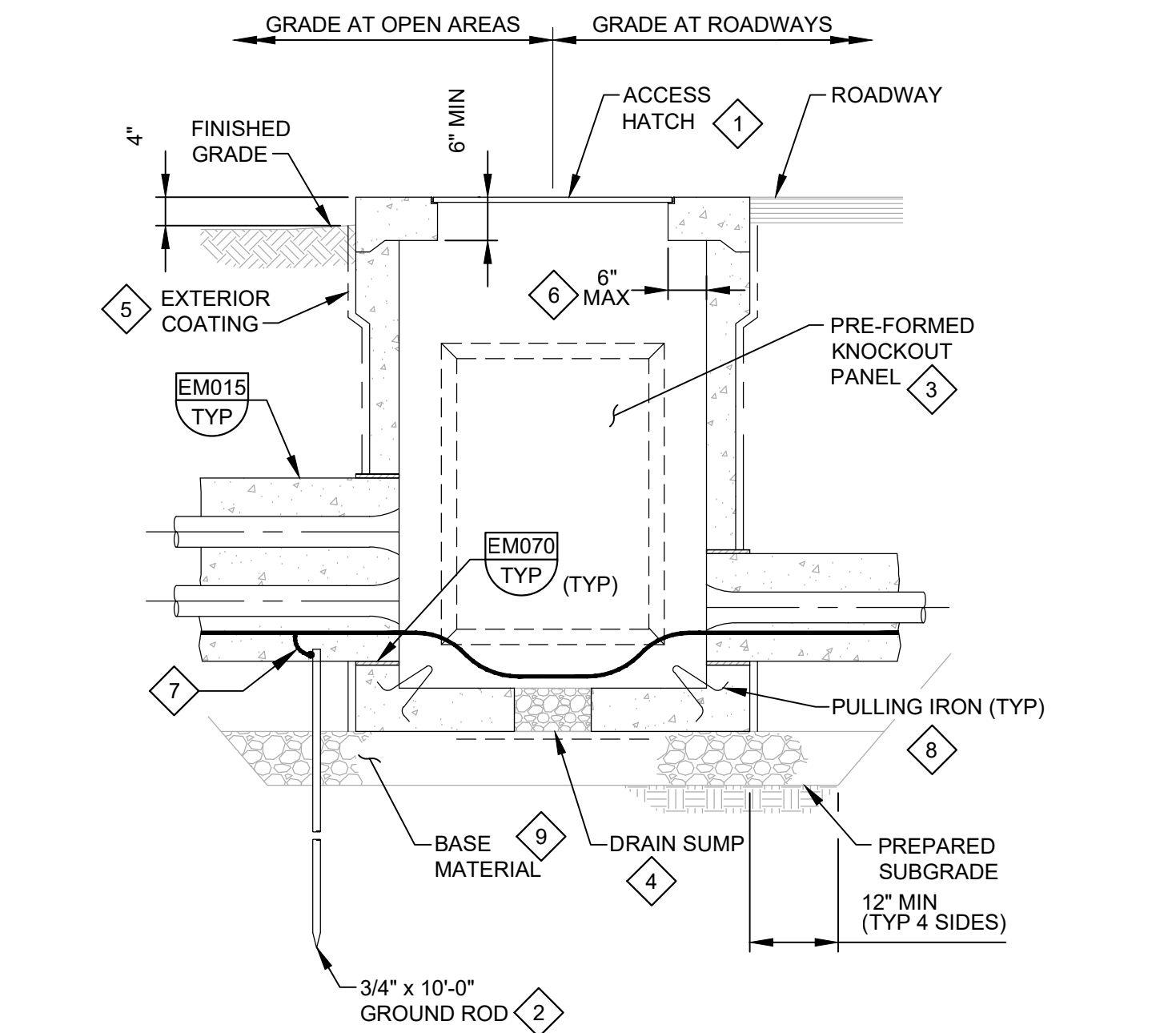
- KEY NOTES:**
- EXPANDED POLYPROPYLENE OR SIMILAR ENERGY ABSORBING COMPRESSIBLE MATERIAL.
 - REFER TO SPECIFICATIONS FOR REQUIRED MINIMUM DISTANCE BETWEEN TOP OF DUCT BANK AND BOTTOM FOOTER.

EM021 DUCT BANK CROSSING UNDER FOOTER
TYP
01/23/25



- KEY NOTES:**
- PRECAST POLYMER CONCRETE HANDHOLE WITH OPEN BOTTOM FOR DRAINAGE. DO NOT INSTALL POLYMER CONCRETE HANDHOLES IN ROADWAYS.
 - ALLOW SUFFICIENT SPACE BETWEEN THE CONDUIT AND HANDHOLE LID FOR BENDING RADIUS OF WIRES AND CABLES.
 - INSULATED GROUNDING BUSHINGS. BOND BUSHINGS TO EACH OTHER WITH #4 WIRE AND TO GROUND CONDUCTORS IN EACH CONDUIT.
 - NIPPLE (USED TO COMPACT DUCT SEAL IN COUPLING).
 - PACK COUPLING AREA WITH DUCT SEAL BY MANVILLE OR APPROVED EQUAL.
 - PROVIDE "TIER"-RATED COVER PER MANHOLE AND HANDHOLE SCHEDULE.
 - GRAVEL BED FOR LEVELING & DRAINAGE. MINIMUM 12" DEEP & EXTENDING AT LEAST 6" EACH WAY PAST OUTSIDE LIMITS OF HANDHOLE.

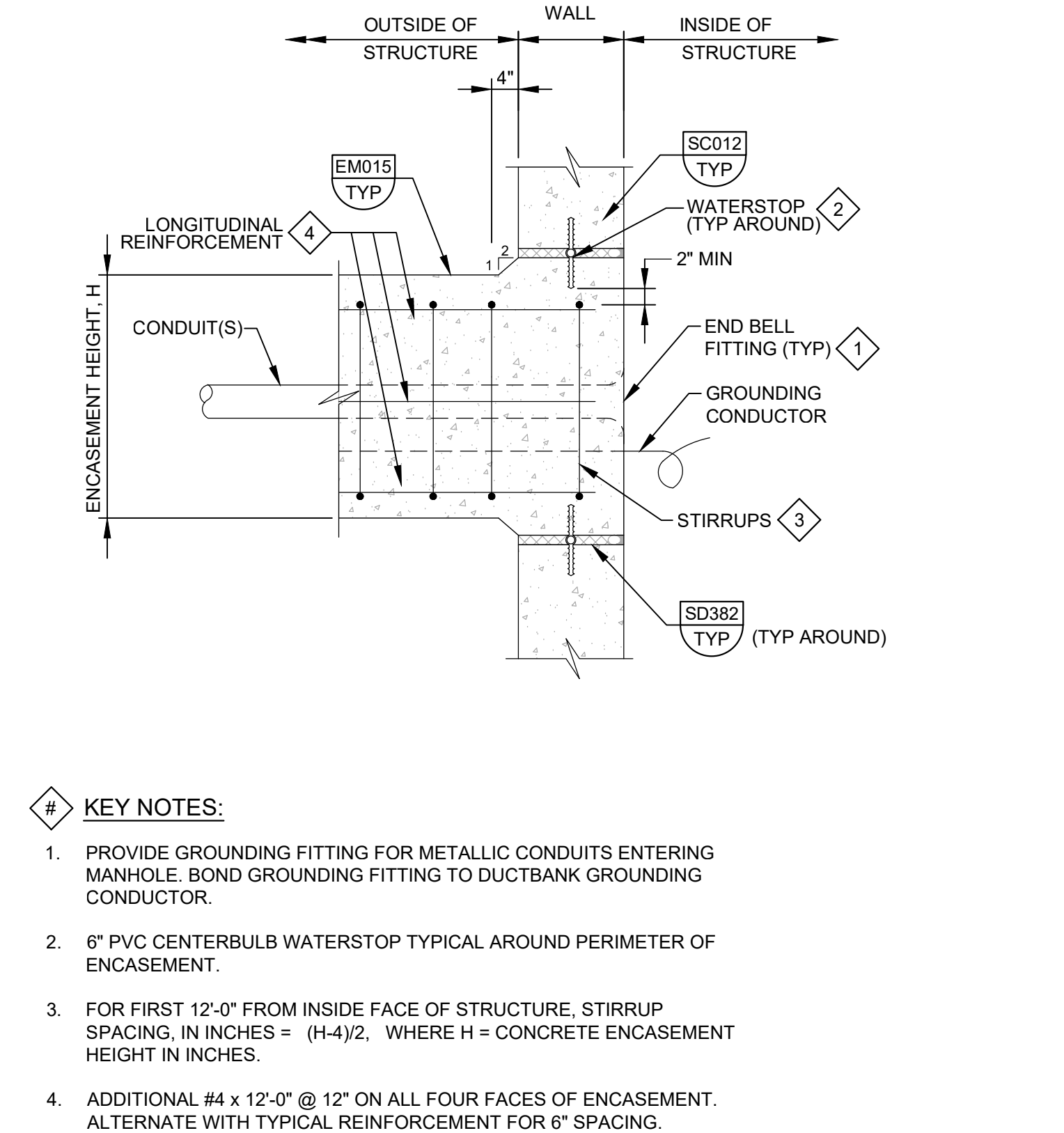
EM052 ELECTRICAL HANDHOLE: PRECAST POLYMER CONCRETE
TYP
01/23/25



EM056 ELECTRICAL HANDHOLE: PRECAST CONCRETE W/HATCH
TYP
01/23/25

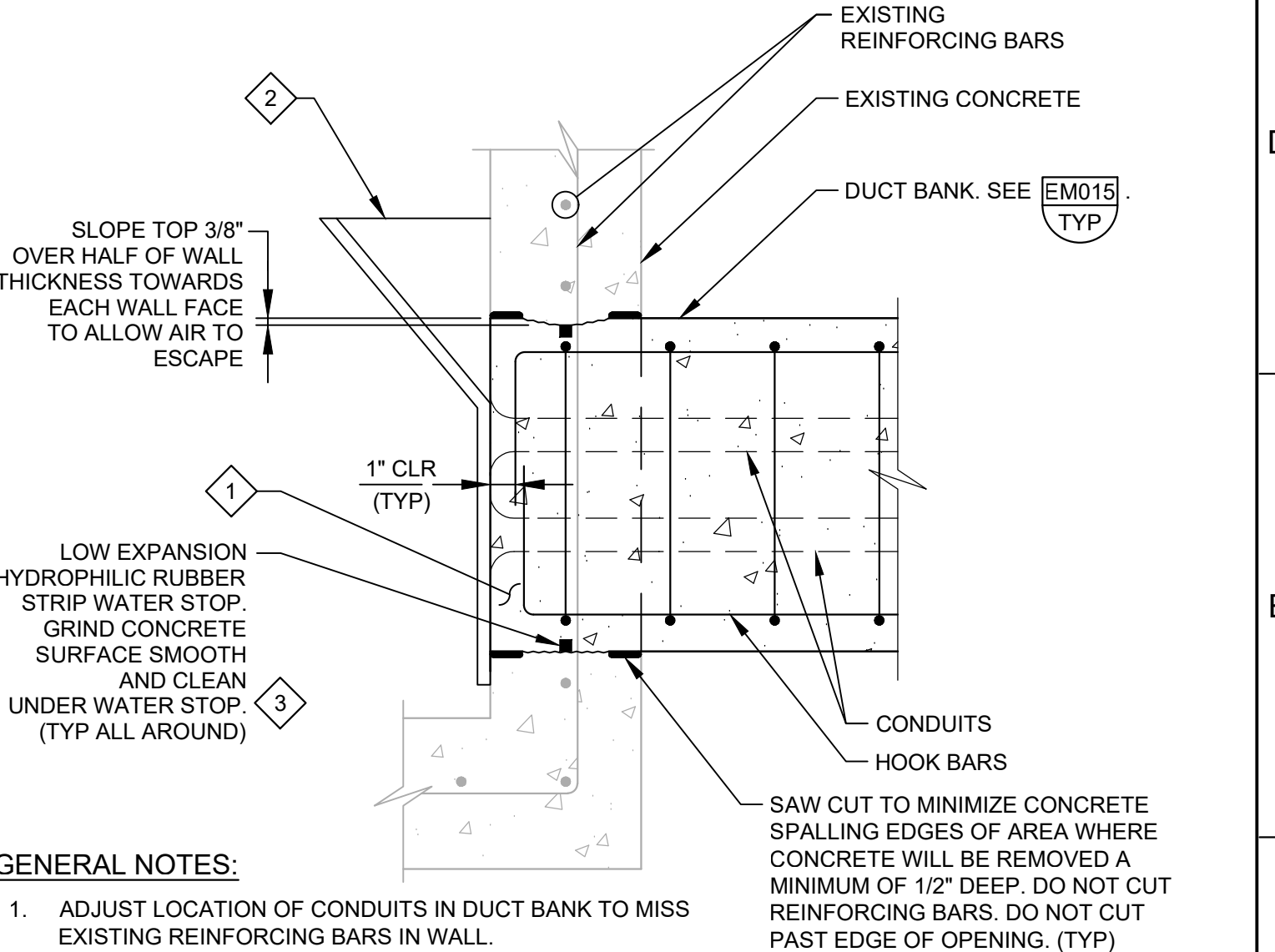
- GENERAL NOTES:**
- PROVIDE MINIMUM INTERIOR DIMENSIONS AS SHOWN IN THE ELECTRICAL HANDHOLE AND MANHOLE SCHEDULE.
 - BOND ALL METALLIC ITEMS INSIDE HANDHOLE TO GROUND ROD USING #4 AWG BARE COPPER CABLE.
 - SEE DRAWINGS FOR ORIENTATION, NUMBER, AND SIZE OF DUCT BANKS AT EACH HANDHOLE.

- KEY NOTES:**
- SEE THE MANHOLE AND HANDHOLE SCHEDULE FOR REQUIRED LOAD RATING OF HATCH.
 - BOND DUCT BANK GROUND CABLE TO GROUND ROD. REFER TO THE SPECIFICATIONS FOR CONNECTION REQUIREMENTS.
 - INSTALL DUCT BANKS ONLY THROUGH CAST-IN OPENINGS, OR PREFORMED KNOCKOUT PANELS. PROVIDE KNOCKOUTS ON EACH WALL AROUND HANDHOLE.
 - PROVIDE MINIMUM 4 INCH DIAMETER, GRAVEL FILLED PENETRATION THROUGH FLOOR OF HANDHOLE. SET SUMP OPENING OVER MINIMUM 18" SQUARE FILTER FABRIC TO ISOLATE GRAVEL FROM BASE MATERIAL BELOW.
 - COAT EXTERIOR WALLS BELOW GRADE WITH BITUMINOUS DAMP PROOFING.
 - MAXIMUM TOP SLAB OVERHANG IS TYPICAL AROUND 4 SIDES OF HANDHOLE.
 - GROUNDING CABLE CONNECTION. REFER TO THE SPECIFICATIONS FOR CONNECTION REQUIREMENTS.
 - PROVIDE ONE PULLING IRON ON EACH WALL OF HANDHOLE.
 - BASE MATERIAL: PROVIDE MIN 12" COMPACTED AGGREGATE BASE COURSE.



- KEY NOTES:**
- PROVIDE GROUNDING FITTING FOR METALLIC CONDUITS ENTERING MANHOLE. BOND GROUNDING FITTING TO DUCTBANK GROUNDING CONDUCTOR.
 - 6" PVC CENTERBULB WATERSTOP TYPICAL AROUND PERIMETER OF ENCASEMENT.
 - FOR FIRST 12'-0" FROM INSIDE FACE OF STRUCTURE, STIRRUP SPACING, IN INCHES = (H-4)/2, WHERE H = CONCRETE ENCASEMENT HEIGHT IN INCHES.
 - ADDITIONAL #4 x 12'-0" @ 12" ON ALL FOUR FACES OF ENCASEMENT. ALTERNATE WITH TYPICAL REINFORCEMENT FOR 6" SPACING.

EM071 ENCASED CONDUITS AT MANHOLES OR STRUCTURES - WITH WATERSTOP
TYP
01/23/25

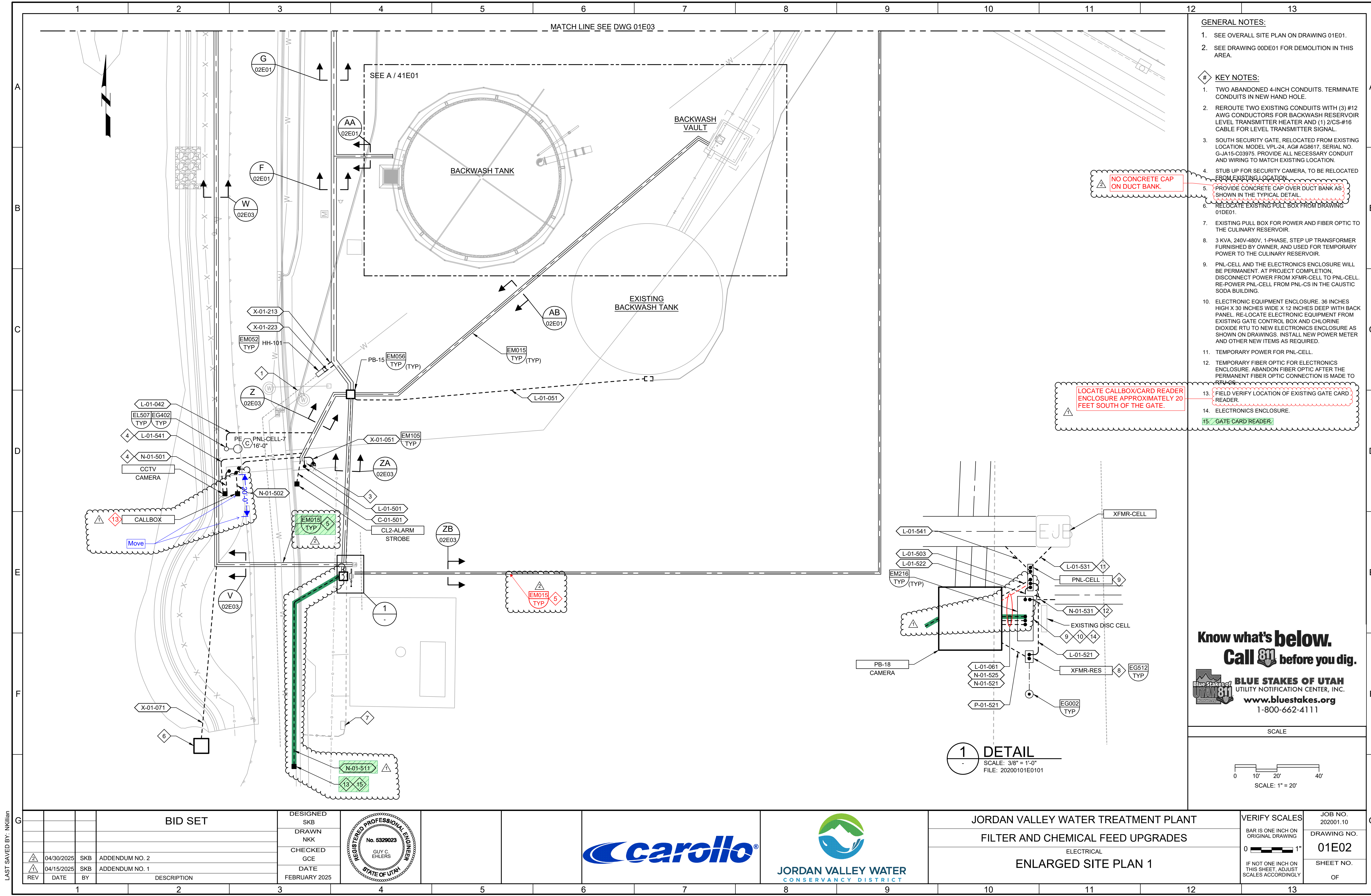


- GENERAL NOTES:**
- ADJUST LOCATION OF CONDUITS IN DUCT BANK TO MISS EXISTING REINFORCING BARS IN WALL.
 - ROUGHEN CONCRETE TO 1/4" AMPLITUDE AND COAT WITH EPOXY RESIN/PORTLAND CEMENTS BONDING AGENT.
- KEY NOTES:**
- REMOVE CONCRETE AS SHOWN FOR NEW DUCT BANK PENETRATION THROUGH WALL. DO NOT CUT EXISTING REINFORCING BARS.
 - USE THE "BIRDS BEAK" FORM FOR ACCESS FOR VIBRATOR AND TO ALLOW CONCRETE TO BE PLACED UNDER SLIGHT PRESSURE. AFTER FORMS ARE REMOVED, REMOVE PROJECTING CONCRETE AND FINISH TO MATCH FINISH OF EXISTING CONCRETE.
 - SIKA SWELLSTOP OR EQUAL. FOLLOW MANUFACTURER'S INSTALLATIONS DETAILS. MINIMUM 2" CONCRETE COVER ON EITHER SIDE.

EM072 DUCT BANK CONNECTION TO EXISTING HANDHOLE, PULL BOX, OR WALL
TYP
01/23/25

BID SET				DESIGNED	GUY C. EHLERS REGISTERED PROFESSIONAL ENGINEER No. 5329023 STATE OF UTAH	PROJECT NO. 202001-100000 FILE NAME: 20200100GE06.dwg	JORDAN VALLEY WATER CONSERVANCY DISTRICT	JORDAN VALLEY WATER TREATMENT PLANT FILTER AND CHEMICAL FEED UPGRADES ELECTRICAL		VERIFY SCALES	JOB NO. 202001.10
				DRAWN				TYPICAL DETAILS 4		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED						0 1"	00GE06
				GCE						IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
REV	DATE	SKB	BY	DESCRIPTION	DATE						OF
	04/30/2025			ADDENDUM NO. 2	FEBRUARY 2025						

BID SET				DESIGNED	GUY C. EHLERS REGISTERED PROFESSIONAL ENGINEER No. 5329023 STATE OF UTAH	PROJECT NO. 202001-100000 FILE NAME: 20200100GE06.dwg	JORDAN VALLEY WATER CONSERVANCY DISTRICT	JORDAN VALLEY WATER TREATMENT PLANT FILTER AND CHEMICAL FEED UPGRADES ELECTRICAL		VERIFY SCALES	JOB NO. 202001.10
				DRAWN				TYPICAL DETAILS 4		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED						0 1"	00GE06
				GCE						IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
REV	DATE	SKB	BY	DESCRIPTION	DATE						OF
	04/30/2025			ADDENDUM NO. 2	FEBRUARY 2025						



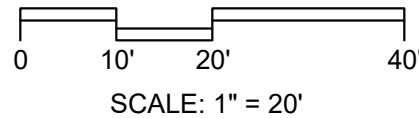
GENERAL NOTES:

- SEE OVERALL SITE PLAN ON DRAWING 01E01.
 - SEE DRAWING 00DE01 FOR DEMOLITION IN THIS AREA.
- # KEY NOTES:
- TWO ABANDONED 4-INCH CONDUITS. TERMINATE CONDUITS IN NEW HAND HOLE.
 - REROUTE TWO EXISTING CONDUITS WITH (3) #12 AWG CONDUCTORS FOR BACKWASH RESERVOIR LEVEL TRANSMITTER HEATER AND (1) 2/CS-#16 CABLE FOR LEVEL TRANSMITTER SIGNAL.
 - SOUTH SECURITY GATE, RELOCATED FROM EXISTING LOCATION. MODEL VPL-24, AG# AG8617, SERIAL NO. G-JA15-C03975. PROVIDE ALL NECESSARY CONDUIT AND WIRING TO MATCH EXISTING LOCATION.
 - STUB UP FOR SECURITY CAMERA, TO BE RELOCATED FROM EXISTING LOCATION.
 - PROVIDE CONCRETE CAP OVER DUCT BANK AS SHOWN IN THE TYPICAL DETAIL.
 - RELOCATE EXISTING PULL BOX FROM DRAWING 01DE01.
 - EXISTING PULL BOX FOR POWER AND FIBER OPTIC TO THE CULINARY RESERVOIR.
 - 3 KVA, 240V-480V, 1-PHASE, STEP UP TRANSFORMER FURNISHED BY OWNER, AND USED FOR TEMPORARY POWER TO THE CULINARY RESERVOIR.
 - PNL-CELL AND THE ELECTRONICS ENCLOSURE WILL BE PERMANENT. AT PROJECT COMPLETION, DISCONNECT POWER FROM XFMR-CELL TO PNL-CELL. RE-POWER PNL-CELL FROM PNL-CS IN THE CAUSTIC SODA BUILDING.
 - ELECTRONIC EQUIPMENT ENCLOSURE. 36 INCHES HIGH X 30 INCHES WIDE X 12 INCHES DEEP WITH BACK PANEL. RE-LOCATE ELECTRONIC EQUIPMENT FROM EXISTING GATE CONTROL BOX AND CHLORINE DIOXIDE RTU TO NEW ELECTRONICS ENCLOSURE AS SHOWN ON DRAWINGS. INSTALL NEW POWER METER AND OTHER NEW ITEMS AS REQUIRED.
 - TEMPORARY POWER FOR PNL-CELL.
 - TEMPORARY FIBER OPTIC FOR ELECTRONICS ENCLOSURE. ABANDON FIBER OPTIC AFTER THE PERMANENT FIBER OPTIC CONNECTION IS MADE TO THE GATE.
 - FIELD VERIFY LOCATION OF EXISTING GATE CARD READER.
 - ELECTRONICS ENCLOSURE.
 - GATE CARD READER.

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SCALE

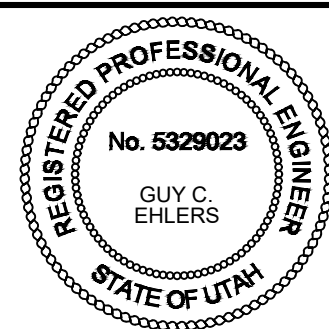


1 DETAIL

SCALE: 3/8" = 1'-0"
FILE: 20200101E0101

BID SET

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SKB
DRAWN
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CHECKED
GCE
DATE
FEBRUARY 2025



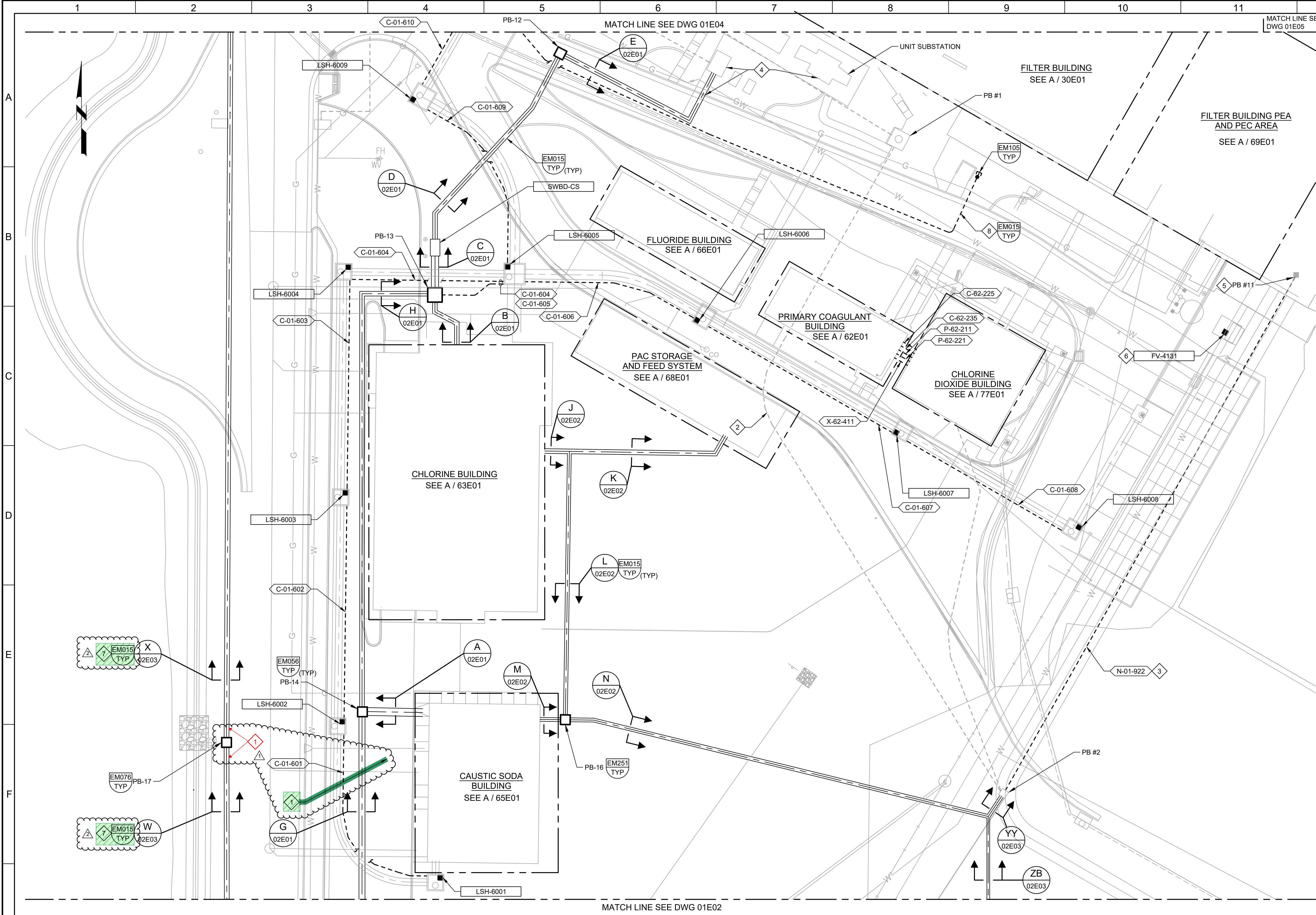
JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
ELECTRICAL
ENLARGED SITE PLAN 1

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202001.10
DRAWING NO.
01E02
SHEET NO.
OF

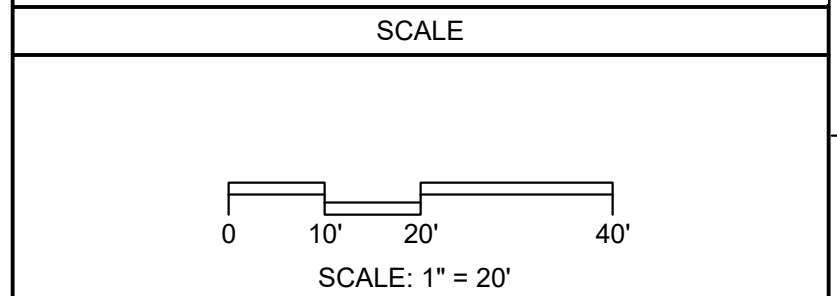
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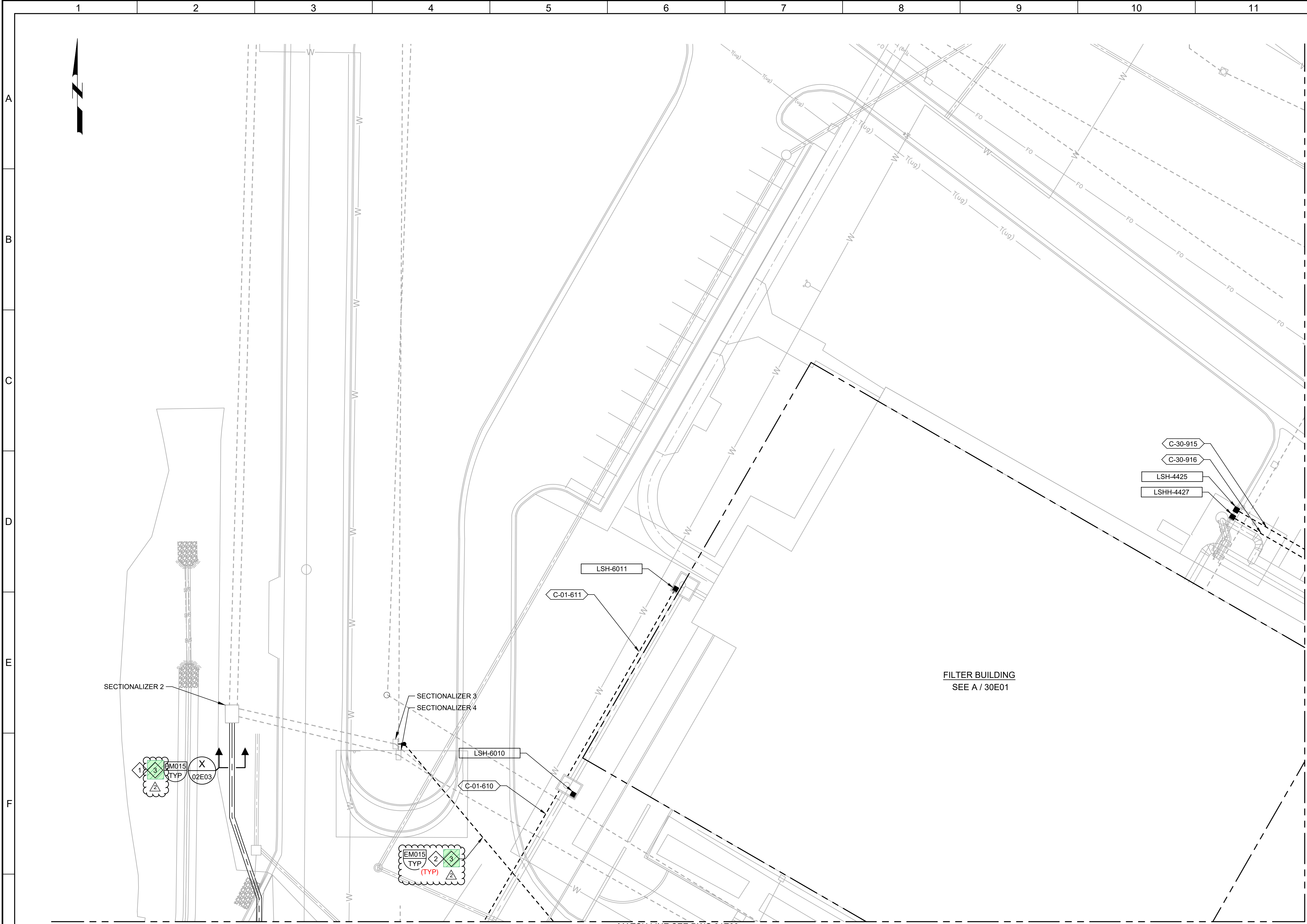
- GENERAL NOTES:**
- SEE OVERALL SITE PLAN ON DRAWING 01E01.
 - SEE DRAWING 00DE02 FOR DEMOLITION IN THIS AREA.
 - PROVIDE 120VAC, 1 POLE INSTRUMENT DISCONNECT PER DETAIL NA900/TYP FOR ALL 4-WIRE INSTRUMENTS.
- KEY NOTES:**
- XFMR CELL**
- REROUTE EXISTING 12.47KV SINGLE PHASE CIRCUIT BETWEEN HANDHOLE AND SECTIONALIZER 4 FOR THE CELL TOWER. REFER TO ONE-LINE DIAGRAM ON DRAWING 03E02 FOR CABLE SIZE. **SPLICE IN HANDHOLE AND** PROVIDE NEW CABLES TO MATCH EXISTING CABLES.
 - PROTECT EXISTING DUCT BANK IN PLACE BELOW THE NEW PAC AREA.
 - USE EXISTING SPARE CONDUIT TO ROUTE FIBER OPTIC WIRING THROUGH EXISTING DUCT BANK FROM PB #2 TO PB #11.
 - USE EXISTING VAULT BELOW THE TRANSFORMER TO ROUTE NEW 480V CIRCUIT FROM UNIT SUBSTATION TO NEW SWBD-CS THROUGH TWO EXISTING CONDUITS AND NEW DUCT BANK.
 - SEE DRAWING 30E10 FOR CONTINUATION.
 - RECONNECT NEW VALVE ACTUATOR TO EXISTING POWER AND I/O CONDUCTORS.
 - NOT USED.**
 - INSTALL 5-INCH PVC CONDUIT. USE EXISTING SPARE CONDUIT IN EXISTING DUCT BANK.

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G				BID SET		DESIGNED SKB						JORDAN VALLEY WATER TREATMENT PLANT			VERIFY SCALES	JOB NO. 202001.10
					DRAWN NKK	FILTER AND CHEMICAL FEED UPGRADES						BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.			
					CHECKED GCE	ELECTRICAL						0 1"	01E03			
		04/30/2025	SKB	ADDENDUM NO. 2	DATE FEBRUARY 2025	ENLARGED SITE PLAN 3						IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.			
		04/15/2025	SKB	ADDENDUM NO. 1								OF				
REV	DATE	BY	DESCRIPTION													
	1		2	3	4	5	6	7	8	9	10	11	12	13		



GENERAL NOTES:

- SEE OVERALL SITE PLAN ON DRAWING 01E01.
- SEE DRAWING 00E03 FOR DEMOLITION IN THIS AREA.
- PROVIDE 120VAC, 1 POLE INSTRUMENT DISCONNECT PER DETAIL NA900/TYP FOR ALL 4-WIRE INSTRUMENTS.

KEY NOTES:

- REROUTE EXISTING 12.47KV SINGLE PHASE CIRCUIT BETWEEN HANDHOLE AND SECTIONALIZER 4 FOR THE CELL TOWER. REFER TO ONE-LINE DIAGRAM ON DRAWING 03E02 FOR CABLE SIZE. **SPlice IN HANDHOLE AND** PROVIDE NEW CABLES TO MATCH EXISTING CABLES.
- INSTALL 5-INCH PVC CONDUIT.
- PROVIDE CONCRETE CAP OVER DUCT BANK AS SHOWN IN THE TYPICAL DETAIL.**

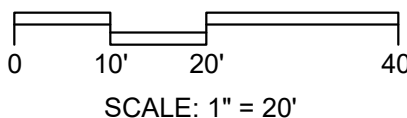
XFMR CELL

INSTALL LOAD BREAK ELBOW TO CONNECT TO SECTIONALIZER.

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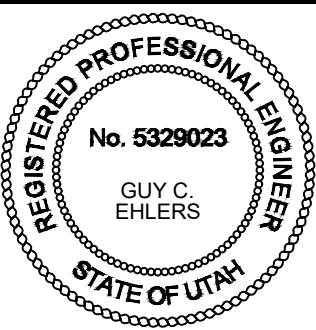
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SCALE



BID SET			
REV	DATE	BY	DESCRIPTION
1	04/30/2025	SKB	ADDENDUM NO. 2
2	04/15/2025	SKB	ADDENDUM NO. 1

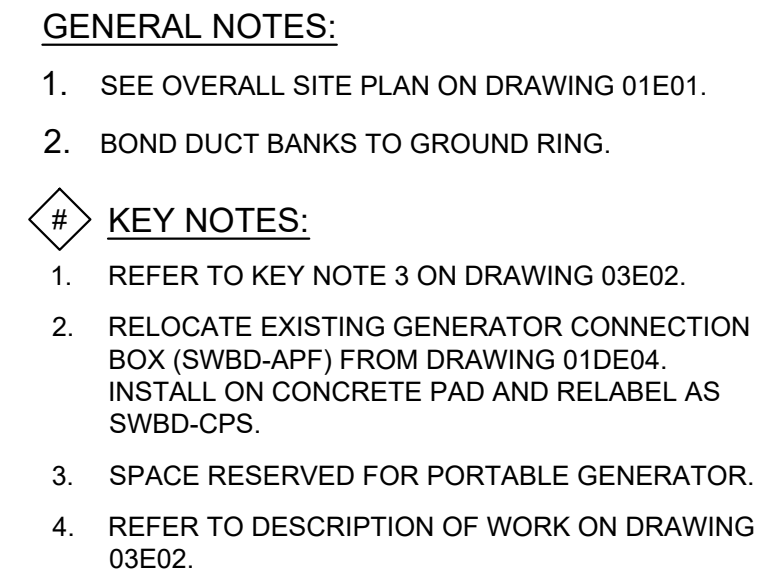
DESIGNED
SKB
DRAWN
NKK
CHECKED
GCE
DATE
FEBRUARY 2025



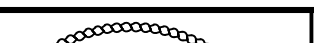




JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
ELECTRICAL
ENLARGED SITE PLAN 4

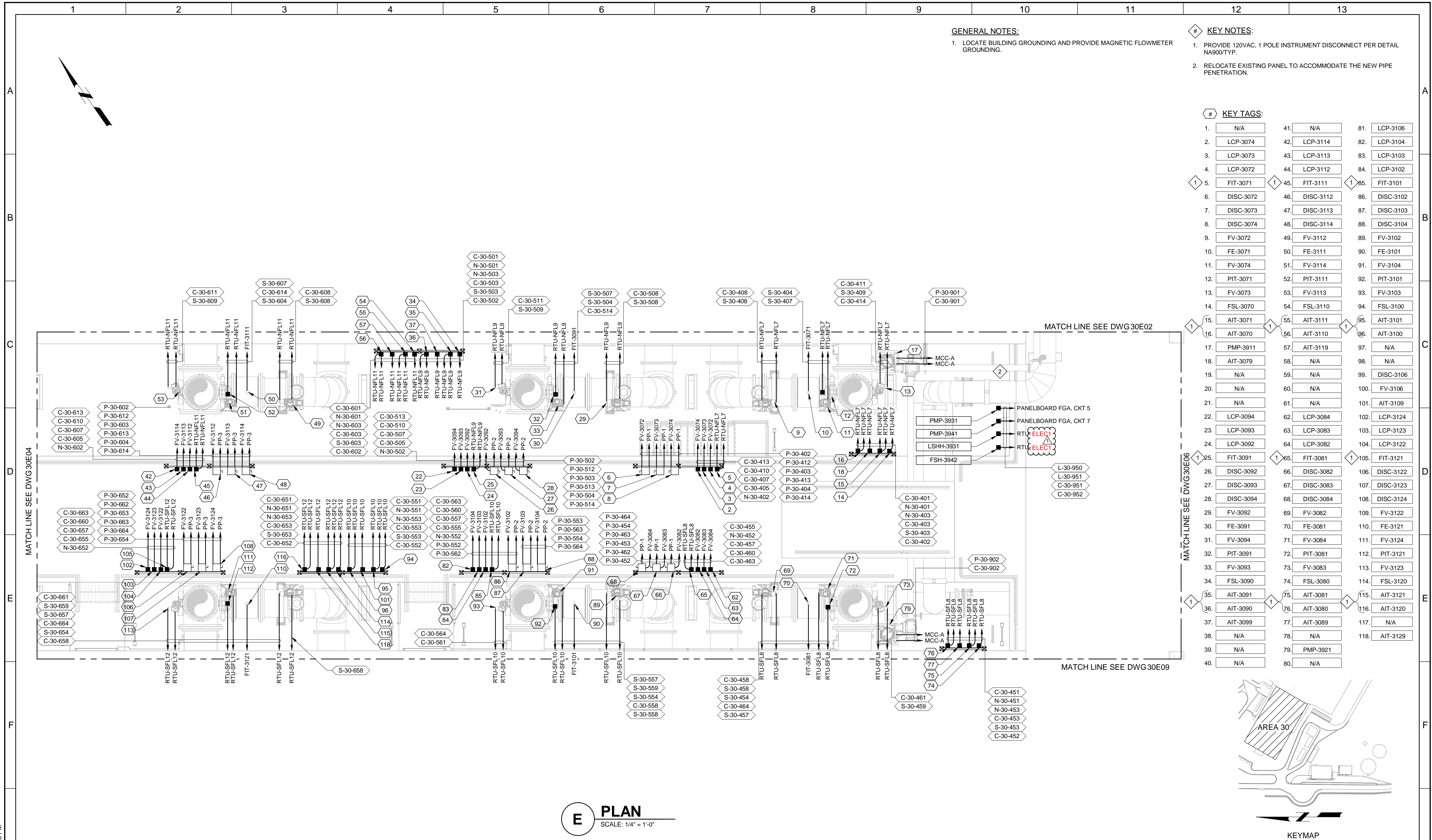
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
202001.10
DRAWING NO.
01E04
SHEET NO.
OF



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10' 120' 40'
SCALE: 1" = 20'
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G				BID SET			DESIGNED SKB						JORDAN VALLEY WATER TREATMENT PLANT			VERIFY SCALES	JOB NO. 202001.10	G							
						DRAWN NKK				FILTER AND CHEMICAL FEED UPGRADES			BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.											
						CHECKED GCE				ELECTRICAL			0  1"	01E06											
						DATE FEBRUARY 2025				ENLARGED SITE PLAN 6			IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.											
		04/30/2025	SKB	ADDENDUM NO. 2	DESCRIPTION												OF								
REV	DATE	BY																							
1		2		3		4		5		6		7		8		9		10		11		12		13	
PROJECT NO.		FILE NAME: 20200101E06.dwg																							



GENERAL NOTES:

- 1. LOCATE BUILDING GROUNDING AND PROVIDE MAGNETIC FLOWMETER GROUNDING.

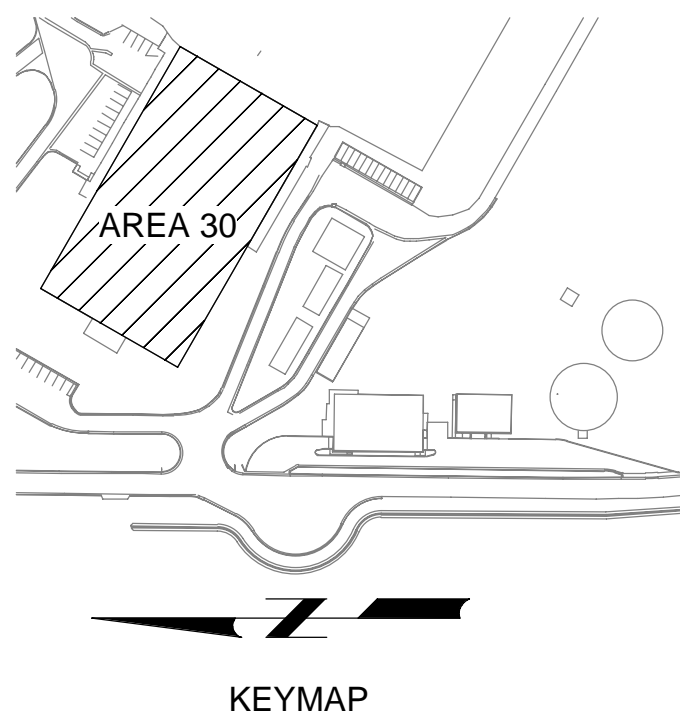
KEY NOTES:

- 1. PROVIDE 120VAC, 1 POLE INSTRUMENT DISCONNECT PER DETAIL NA900/TYP.
- 2. RELOCATE EXISTING PANEL TO ACCOMMODATE THE NEW PIPE PENETRATION.

KEY TAGS:

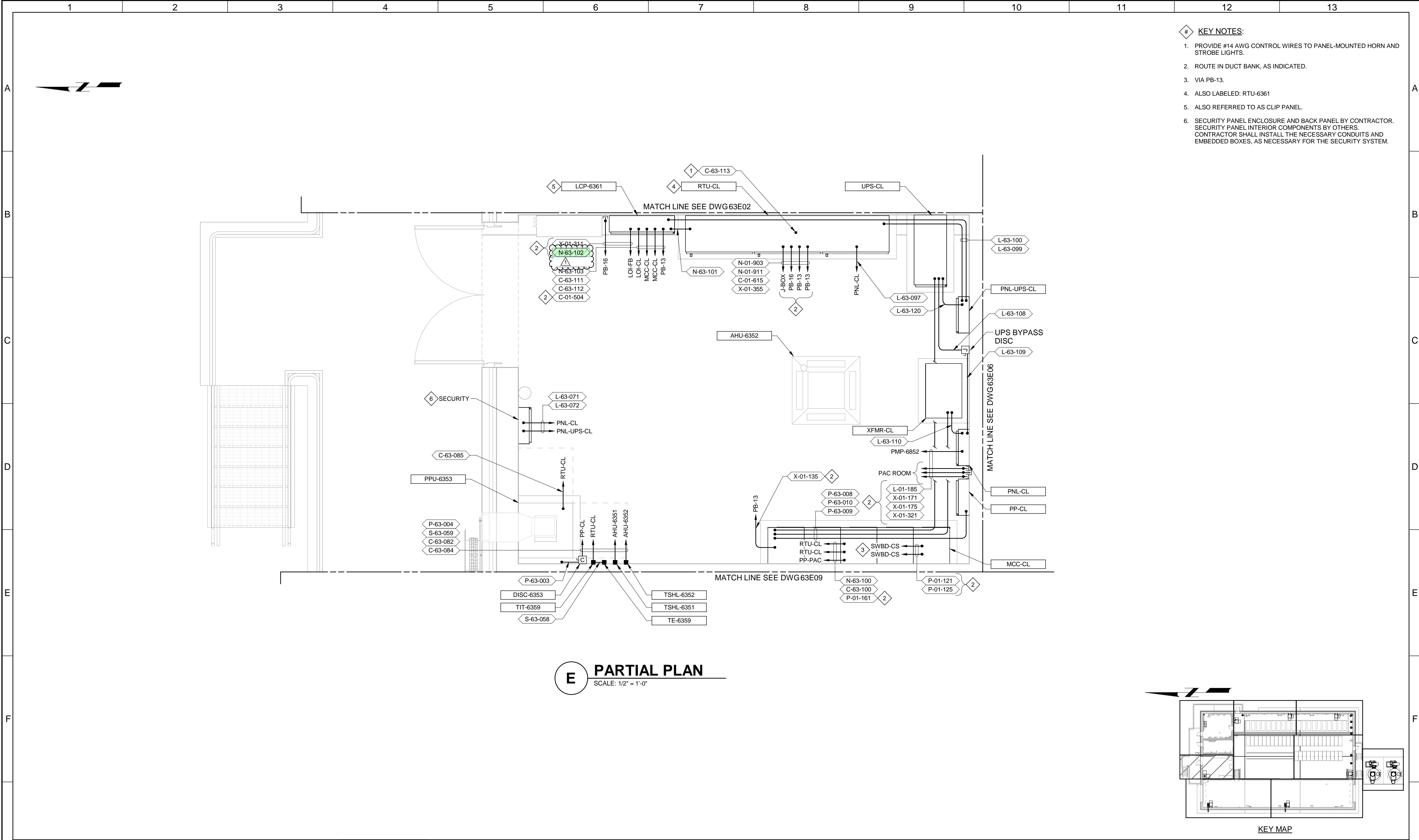
1.	N/A	41.	N/A	81.	LCP-3106
2.	LCP-3074	42.	LCP-3114	82.	LCP-3104
3.	LCP-3073	43.	LCP-3113	83.	LCP-3103
4.	LCP-3072	44.	LCP-3112	84.	LCP-3102
1	FIT-3071	1	FIT-3111	1	FIT-3101
6.	DISC-3072	46.	DISC-3112	86.	DISC-3102
7.	DISC-3073	47.	DISC-3113	87.	DISC-3103
8.	DISC-3074	48.	DISC-3114	88.	DISC-3104
9.	FV-3072	49.	FV-3112	89.	FV-3102
10.	FE-3071	50.	FE-3111	90.	FE-3101
11.	FV-3074	51.	FV-3114	91.	FV-3104
12.	PIT-3071	52.	PIT-3111	92.	PIT-3101
13.	FV-3073	53.	FV-3113	93.	FV-3103
14.	FSL-3070	54.	FSL-3110	94.	FSL-3100
1	15.	1	55.	1	95.
	AIT-3071		AIT-3111		AIT-3101
	16.		56.		96.
	AIT-3070		AIT-3110		AIT-3100
	17.		57.		97.
	PMP-3911		AIT-3119		N/A
	18.		58.		98.
	AIT-3079		N/A		N/A
	19.		59.		99.
	N/A		N/A		DISC-3106
	20.		60.		100.
	N/A		N/A		FV-3106
	21.		61.		101.
	N/A		N/A		AIT-3109
	22.		62.		102.
	LCP-3094		LCP-3084		LCP-3124
	23.		63.		103.
	LCP-3093		LCP-3083		LCP-3123
	24.		64.		104.
	LCP-3092		LCP-3082		LCP-3122
1	25.	1	65.	1	105.
	FIT-3091		FIT-3081		FIT-3121
	26.		66.		106.
	DISC-3092		DISC-3082		DISC-3122
	27.		67.		107.
	DISC-3093		DISC-3083		DISC-3123
	28.		68.		108.
	DISC-3094		DISC-3084		DISC-3124
	29.		69.		109.
	FV-3092		FV-3082		FV-3122
	30.		70.		110.
	FE-3091		FE-3081		FE-3121
	31.		71.		111.
	FV-3094		FV-3084		FV-3124
	32.		72.		112.
	PIT-3091		PIT-3081		PIT-3121
	33.		73.		113.
	FV-3093		FV-3083		FV-3123
	34.		74.		114.
	FSL-3090		FSL-3080		FSL-3120
1	35.	1	75.	1	115.
	AIT-3091		AIT-3081		AIT-3121
	36.		76.		116.
	AIT-3090		AIT-3080		AIT-3120
	37.		77.		117.
	AIT-3099		AIT-3089		N/A
	38.		78.		118.
	N/A		N/A		AIT-3129
	39.		79.		
	N/A		PMP-3921		
	40.		80.		
	N/A		N/A		

E PLAN
SCALE: 1/4" = 1'-0"



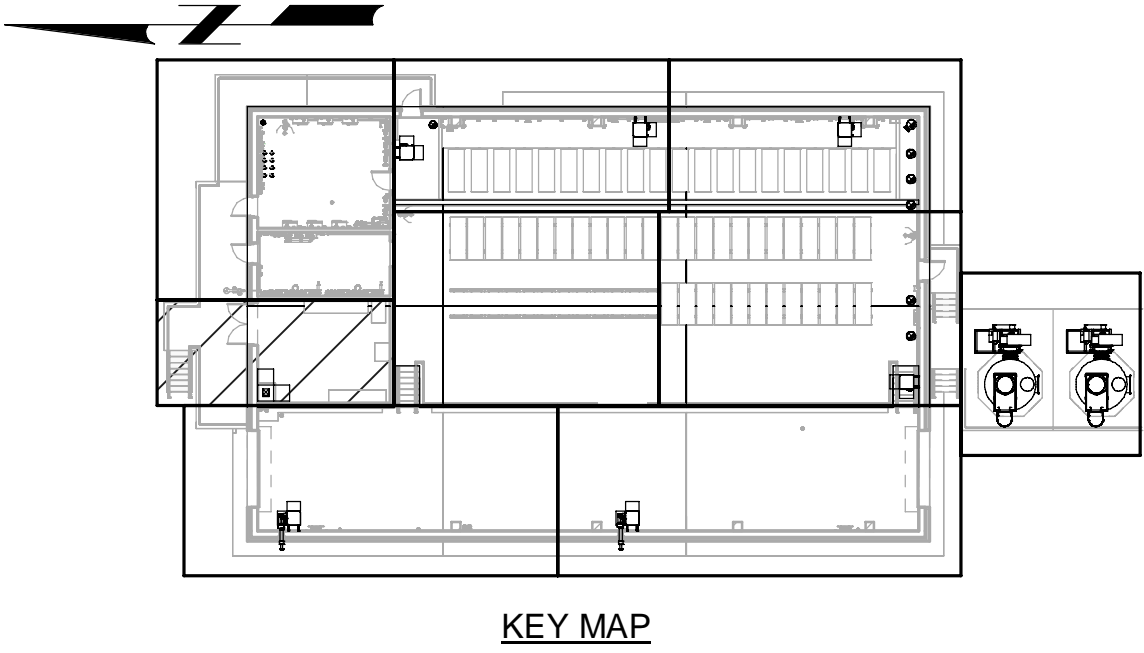
BID SET				DESIGNED SKB										JORDAN VALLEY WATER TREATMENT PLANT				VERIFY SCALES	JOB NO. 202001.10
				DRAWN PLU										FILTER AND CHEMICAL FEED UPGRADES				BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED GCE										ELECTRICAL				0 1"	30E05
				DATE FEBRUARY 2025										FILTER BUILDING AREA E LOWER LEVEL POWER AND CONTROL PLAN				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. OF
1	2	3	4	5	6	7	8	9	10	11	12	13							

PLOT DATE: 2/10/2025 4:50:58 PM



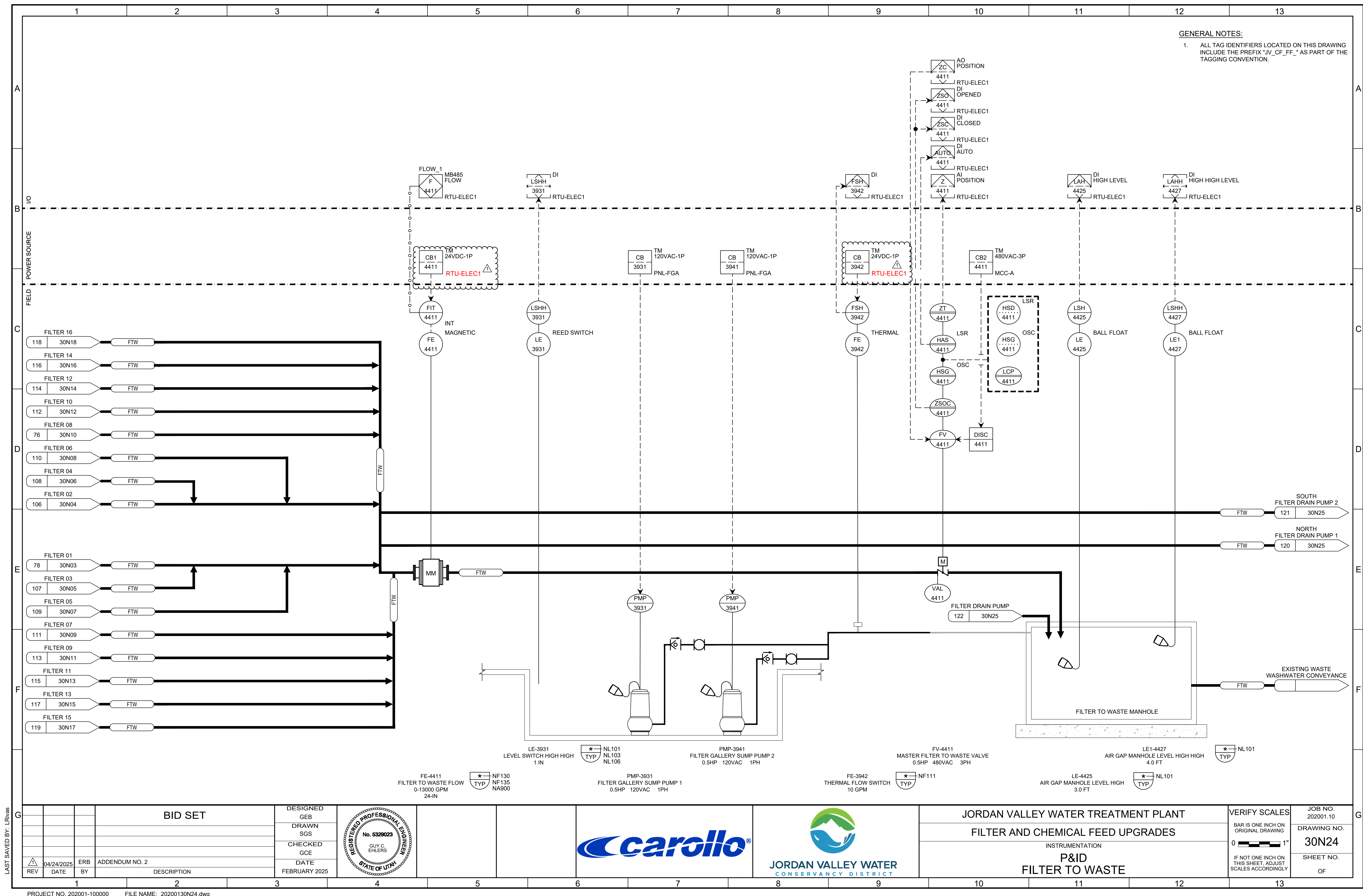
- # KEY NOTES:
1. PROVIDE #14 AWG CONTROL WIRES TO PANEL-MOUNTED HORN AND STROBE LIGHTS.
 2. ROUTE IN DUCT BANK, AS INDICATED.
 3. VIA PB-13.
 4. ALSO LABELED: RTU-6361
 5. ALSO REFERRED TO AS CLIP PANEL.
 6. SECURITY PANEL ENCLOSURE AND BACK PANEL BY CONTRACTOR. SECURITY PANEL INTERIOR COMPONENTS BY OTHERS. CONTRACTOR SHALL INSTALL THE NECESSARY CONDUITS AND EMBEDDED BOXES, AS NECESSARY FOR THE SECURITY SYSTEM.

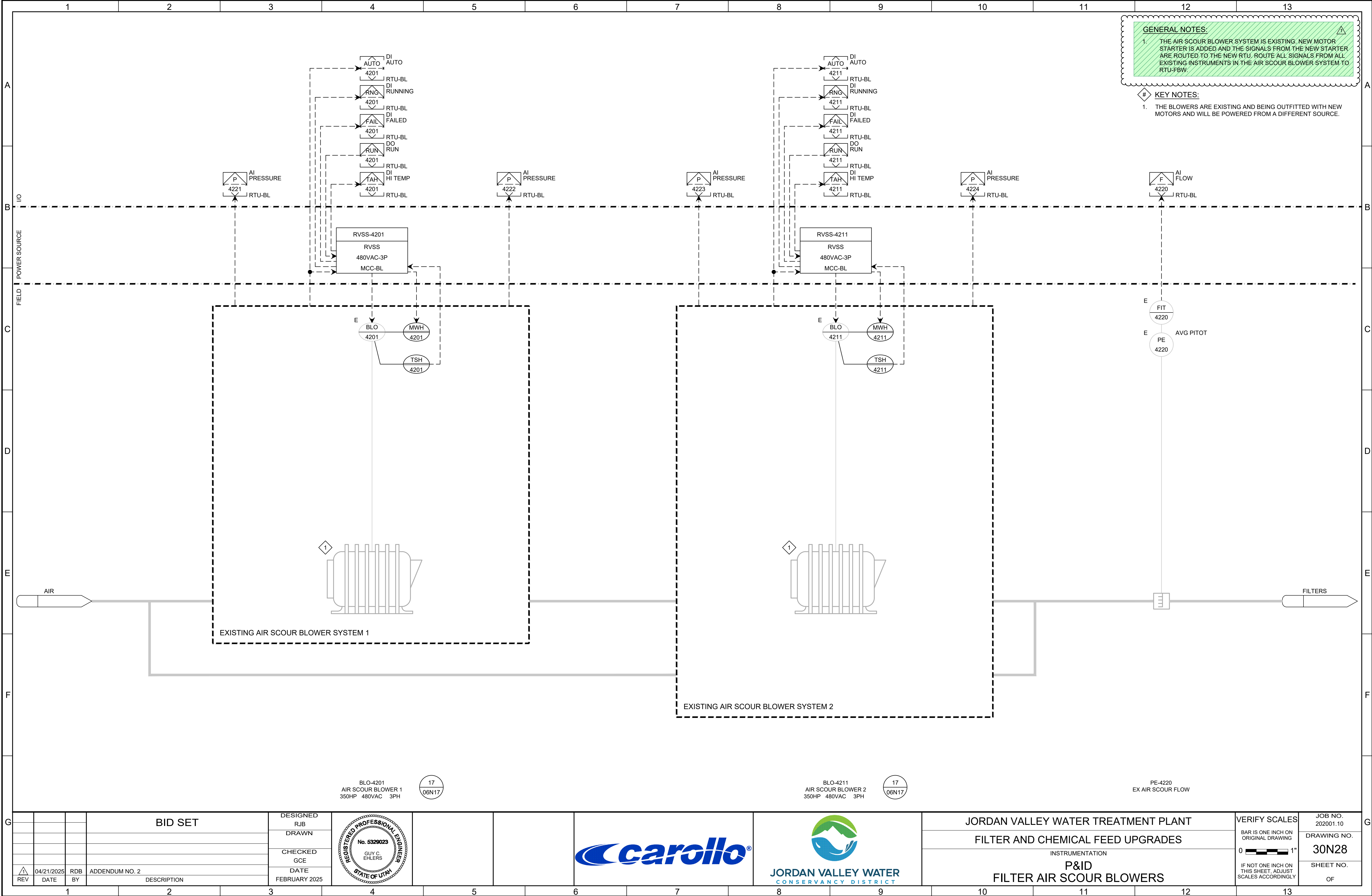
E PARTIAL PLAN
SCALE: 1/2" = 1'-0"



KEY MAP

BID SET				DESIGNED MJG										JORDAN VALLEY WATER TREATMENT PLANT				VERIFY SCALES	JOB NO. 202001.10
				DRAWN MNH										FILTER AND CHEMICAL FEED UPGRADES				BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED GCE										ELECTRICAL				0 1"	63E05
				DATE FEBRUARY 2025										CHLORINE BUILDING ELECTRICAL ROOM POWER AND CONTROL PLAN				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. OF
REV	DATE	BY	DESCRIPTION											1	2	3	4		

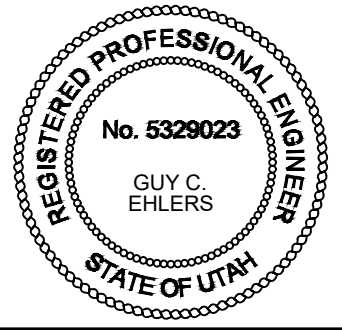




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REV	DATE	BY	DESCRIPTION
1	04/21/2025	RDB	ADDENDUM NO. 2

DESIGNED	RJB
DRAWN	
CHECKED	GCE
DATE	FEBRUARY 2025



JORDAN VALLEY WATER TREATMENT PLANT
FILTER AND CHEMICAL FEED UPGRADES
INSTRUMENTATION
P&ID
FILTER AIR SCOUR BLOWERS

VERIFY SCALES
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.	202001.10
DRAWING NO.	30N28
SHEET NO.	OF



JORDAN VALLEY WATER TREATMENT PLANT FILTER AND CHEMICAL UPGRADES
JORDAN VALLEY WATER CONSERVANCY DISTRICT
WEST JORDAN, UTAH

Bidder RFI Responses
April 30, 2025

No.	Question	Response
1	Spec Section 17050 3.04 A states the following: "3.04 RE-INSTALLATION: A. Existing instrumentation: 1. Clean, recondition and re-calibrate each existing instrument to be reused, removed, or reinstalled using an authorized service facility of the instrument manufacturer. 2. Provide certification of this work before reinstallation of each instrument." We believe this cost cannot be quantified for the estimate. Would it be possible for each contractor to carry a specified allowance amount for this?	The specific instruments to be refurbished are indicated in the P&IDs and are listed below for your reference. Given the small number of re-used instruments the design team believes this is quantifiable. - 16 particle counters, AE/AIT-3xx9, where XX is the filter number - 3 level instruments, LE/LIT-0126, -0127, and -0128 - 1 flow meter PE/FIT-4420.
2	The specifications call for concrete encasement of ductbanks. The drawings refer to detail EM015 shown below. The specifications also state that if the conduits are to be direct buried or sand embedded conduits that we are to use PCS type conduit. Please clarify.	All new duct banks to be direct buried as shown in detail EM015. Descriptions of concrete encasements for duct banks have removed from specification language for clarity.
3	There is a discrepancy between the conduit schedule, electrical drawings and P&ID drawings. As an example, please reference the below images. The Conduit Schedule shows conduit C-30-912 going from FV-4411 to RTU-FBW. However, the electrical and P&ID drawings show FV-4411 being routed to RTU- ELEC1. There are several similar discrepancies. Please clarify if the Conduit Schedule is correct.	The I/O shown on drawing 30N24 should go to RTU-BL. The conduit schedule will be updated by addendum.
4	Reference Drawing 30N28, General Note #1. Note states "Route all signals from all existing instruments in the air scour blower system to RTU-FBW." Please confirm the existing instruments need to be routed to RTU-FBW and not RTU-BL.	This has been addressed by markup.
5	Referring to the demo drawings, there are notes referring to the demo of electrical ductbanks. Notes state "demolish conduit and wire" some of the notes state "not concrete encased". Are we to assume if the note does not state "not concrete encased" that the ductbank is concrete encased? If the conduits are concrete encased are we required to pull the concrete ductbank out of the ground or are we to demo the wire and cap the abandoned conduits? Please clarify.	Assume all existing duct banks are concrete encased unless otherwise noted on the drawings.
6	Please refer to the new disconnects for the Flow Valves on sheets 30E02 through 30E07. The symbols do not have a Tag letter indicating a disconnect type listed on the Disconnect Schedule sheet 05E02. Please clarify the enclosure types, fused or non-fused, etc.	Flow valves in the Filter Building will need Type A disconnects (600VAC, 3P, 30A, NEMA 4, Non-fused),
7	Drawing 30A02, Filters Lower Plan, Key notes 1 references door schedule sheet 00AG00, this sheet is not in the plans. Also this door does not show on the door schedule shown on the door schedule shown on drawing 00GA01. Please provide door requirements.	Information for door 30-D101-01 has been provided in the markup for addendum 2 on sheet 00GA01.
8	On past projects we have coating the chemical pull boxes with chemical resistant coatings. The boxes on this project are not coated. Is this correct?	Chemical resistant coatings in the chemical pull boxes is not required.
9	PEA, PC, and PEC areas. The finish schedule indicates that we coat the existing floor, wall and ceiling surfaces. Is it the intent to 100% recoat all the existing surfaces? Or, do we just coat the modified areas?	Yes, the intent is to recoat all surfaces for a clean finished appearance.
10	Please provide Conduit and Nema Enclosure types for areas 41, 55, & 66. These areas were not included with the Plant Area Electrical Work Requirements matrix in spec 16050-5.	This has been addressed by addendum 2.
11	Please clarify the exact Class 2 Division 1 boundary of PAC Silo Area 68. Please clarify if Area 68 is the only classified hazardous location.	Please refer to specification 16050 Table 1 in 2.04 C, which states that system supplier will define hazard classification area. Specification section 13270 also describes equipment which requires hazard ratings.
12	Further define these words from your Spec ("The system shall be pre-assembled, pre-wired and tested to the maximum extent practical at the factory and delivered to the site ready for installation and start-up") so that complete preassembly is defined and required along with a Letter of Certification to that extent from the manufacturer to the GC prior to the bid)	Specification language has been added requiring the contractor to understand and account for any differences in the extent of system pre-assembly between the two approved suppliers.
13	Drawing 63E05 indicates N-63-102 is routed in duct bank. N-63-102 does not appear in any of the duct bank schedules. What route is it to take to get to LOI-FB at the Filter Building? Is there room in the existing duct banks going between the existing vaults near the filter building (Key Note 4, 01E03)?	Conduit N-63-102 will be deleted by addendum.
14	Drawing 71E02 has a panel labeled "Panel UPS-S". This panel does not appear on the one-lines, nor does UPS-S. Is this panel and the UPS that feeds it existing, or is it new and to be included in this project? If the Contractor is to provide these items, please provide details.	This has been addressed by Addendum 1.
15	There are circuits that go to/from MCC-B1 (P-71-007 for example), but there does not seem to be any indication in the bid documents as to where MCC-B1 is located. Please advise where MCC-B1 is located.	This has been addressed by Addendum 1.
16	Drawing 05N02 General Note 4 states the Contractor is to furnish the enclosure and the touchscreen but then note 6 states the Owner will provide the HMI. Are the touchscreen and the HMI not the same thing? If they are, who provides the touchscreen/HMI?	Touchscreen and HMI are the same thing. They are provided by Owner.
17	There is only one enclosure with dimensions provided in the Instrumentation drawings that the Contractor is to provide to the Owner (05N04). The rest of the panels in the Instrumentation drawings do not have any dimensions supplied (05N06 for example), nor are there any scales on these drawings. Please clarify what size of enclosure is needed for each panel the Contractor is to provide.	Specification language has been added to 17050 describing the procedure for determining exact panel enclosure sizes. Refer to electrical drawings for plan view dimensions.
18	Key Notes 2-4 of 03E20 state the PAC System supplier is providing the items designated by the notes. Please clarify if this includes the installation as well or if the Contractor is to install the supplier provided items.	Refer to specification section 13270 for PAC system supplier scope.
19	Key Note 9 of 01E02 states that permanent power for PNL-CELL will be from PNL-CS. This circuit does not appear in the conduit schedule or the duct bank schedule, at least for the two duct banks coming from the Caustic Soda Building. Will we be using one of the spare conduits in these duct banks or does an additional conduit need to be added to what is shown for the duct banks?	Conduit path will be updated by addendum.
20	Please confirm you agree that Carollo is just looking for control logic to prevent truck offloading once the silo is at a high level. This can only be achieved with a valve because power to the truck blower is outside our control.	Yes, the allowance item for PAC fill line control involves control logic for shutting a valve, independent of truck settings.
21	For 2 and 3, these are written as the same valve, just in different locations. Please confirm? I Have talked to a few suppliers and they aren't sure what a venting valve would be. Is this a valve on the silo that will relieve pressure in the event of an explosion? The silo already has a pressure relief valve.	Yes, these are two potential positions for venting valves that would relieve pressure in the vent of an explosion. If any allowance item is already included in the base bid, assign a cost adder of zero.
22	Specification 17720, section 1.10A. lists the following spares required for the PLC. The language differs between "for each type" and "for every". For example, "Power supplies: 2 spares for every power supply in the system.". This would be a total of 4 spare power supplies. This list is for the CPU, IO modules, power supplies, network/comm cards, adapter, etc. for the PLC. Can you confirm you want suppliers to bid this exact language? It is buried in the PLC spec and I am concerned other suppliers may not address it which could lead to differences in scope/price. I am aware of it because its in every Carollo job we do.	Specification language has been adjusted to clarify spares "for each type" rather than "for every".
23	The natural gas generator seems oversized for running a single culinary pump. Please confirm the generator size.	The generator size was revised to 200kW by addendum #1
24	Will Nema Type 3R enclosures be acceptable for SWBD-APF & SWBD-CS ?	Yes, refer to specification section 16442.
25	Chemical Hose Metering Pumps are specified to have a maximum discharge pressure of 60 psi. Can you provide the nominal discharge pressure?	The hose metering pumps specified in section 11244 have a nominal discharge pressure is 25 psi.
26	The Pipe schedule shows one material and plans show a different material: UW Utility Water Plans show PVC and Pipe Schedule calls out CPVC. CLG Chlorine Gas Plans show PVC and Pipe Schedule calls out CPVC. CLS Chlorine Solution Schedule shows PVC on sheet 63M04 one CLS line shows CPVC. There is piping shown on Sheet 62N02 on the left side, and. Sheets 62N02, 03, and 04 in the PEA, PEC, and PC Areas, but this piping does not seem to show up on the mechanical drawings. Where can we find the layout for this piping.	Drawings 00G11, 00G12, 63M04, and 62N02 have been revised in Addendum 1 to address these questions. The transfer pumps and associated piping in 62N02 is shown in drawing 62M01. Piping from the transfer pumps is routed through the yard to the High Rise Building (63N27) where the day tank and metering pumps (62N02 - 62N04) are located, as shown on 71M03

27	Would a manufacturer be accepted for the FRP Tanks that are designed, fabricated, inspected, and documented per the ASME RTP-1 program but is not a certified facility? If that was to be accepted, the tanks would have all the same requirements required with the ASME RTP-1 standards but will not incur the inflated costs associated with being a certified tank project. If our request receives approval, we suggest rewording the 1.05-C statement to include the following, which is commonly accepted in other constructed FRP Tank specifications: The ASME RTP-1 requirements should be followed in the design, fabrication, inspection, and documentation of the tanks; shop certification is not necessary.	Manufacturers should meet ASME RTP-1 certification requirements per Specification 13206.
28	National is seeking confirmation that they can bid on the listed FRP Troughs for the Jordan Valley project. They do not have any exceptions to specification Section 13226.	Trough manufacturers not listed in the specification can be evaluated as an 'or equal' supplier after the bid.
29	Solo G2 or Wizard Indicator?: Section 17622 has 3 different types of scales. For the "gas cylinder weight scales", the beginning of the section under "2.03 Manufacturers", paragraph 3 calls for Chlor-Scale with Solo G2. However, in section 2.04 paragraph E, it specifies "capable of calculating total amount used and rate of feed". We can only accomplish this on the Wizard indicator, NOT the Solo G2.	The Solo G2 is the desired indicator. The Specification has been modified in this Addendum.
30	1 channel or 2 channel indicators?: There are 20 tanks online and hence 20 scales in the chlorine room. We have the ability to use a 2-channel weight indicator that can display 2 scales independently. This would save \$ instead of using single channel displays. The spec for the Halogen shut off systems is using a Dual channel controller, so I thought maybe using a dual channel controller for the scales might be acceptable. Please clarify	Provide 1 channel weight indicators as shown on the drawings and described in Specification 11260.
31	Seismic calculations?: Section 17622 paragraph 1.03 Submittals says "For platform scales, provide structural calculations for the seismic anchorage...by a professional engineer registered in the State of Utah." Although the chlorine room falls under the "Gas cylinder weight scales" not "platform scales", we are wondering if seismics are wanted for the chlorine scales. Secondly, we have seismic calculations done for a zone 4 in California. If needed, would using these drawings be acceptable?	Seismic calculations, submitted by the contractor, are required for anchorage of equipment, for supports and hangers. These calculations are based on the site specific seismic accelerations as provided in the SDC, which vary across the country. Submittals of calculations are reviewed during construction.
32	Hold Down Straps for scales? Section 2.04 Manufactured units says "Platforms for horizontal drums shall have a mechanism to prevent drums from rolling". Our scales have roller trunnions to be able to rotate the tanks to position the valves properly. The trunnions are sufficient to prevent the drums from "rolling away" but they may not prevent the chlorine drums from rotating on the roller trunnions unintentionally. We use hold down straps primarily for seismic or flood plain purposes to secure the tanks to the scales, but they could also be used to prevent the tanks from rotating. Would you like to use these on the scales?	Providing hold down straps with the roller trunnions would meet the intent of the Specification.
33	There is only one existing duct bank that is to be removed that is noted as not concrete encased. Is it know what type of installation the other existing electrical duct banks are that are to be demolished? Are all existing duct banks direct buried or is there a possibility that some are concrete encased?	Assume all existing duct banks are concrete encased unless otherwise noted on the drawings.
34	Will the District consider allowing an AWWA D115 Post-Tensioned Concrete Tank as an alternate to the specified AWWA D110 Prestressed Tank?	The District has already evaluated these options and elected to specify a D110 prestressed tank.
35	In hopes to avoid confusion, double coverage, scope gaps, and coordination issues once the project is underway some clarification is probably needed on the auxiliary building for the PAC system equipment. 13270 2.05.N states to provide a prefabricated building, but it does not specify who provides it. It seems reasonable that a prefabricated building be supplied by whoever is providing the equipment inside it (especially since 2.05.N.7 states the building will arrive with all the equipment installed, piped and wired to the greatest extent practical), therefore falling under the PAC system supplier's scope. Also, 2.03.b states "the supplier shall furnish a complete, fully functional system..." of which this auxiliary building seems to be a part of. The Contractor can supply this building, but it will be difficult to get an accurate quote on the building if the information for the equipment that it is designed around is not available before the bid date. Experience has also shown that coordination issues can arise once the project is underway if a package scope is split up. Is the design intent for the PAC system supplier to include supplying this building, does it fall under the Contractor's scope, or is the intent to leave it to the Contractor and PAC system supplier to work it out? Please advise.	The PAC system supplier will provide the prefabricated building.